

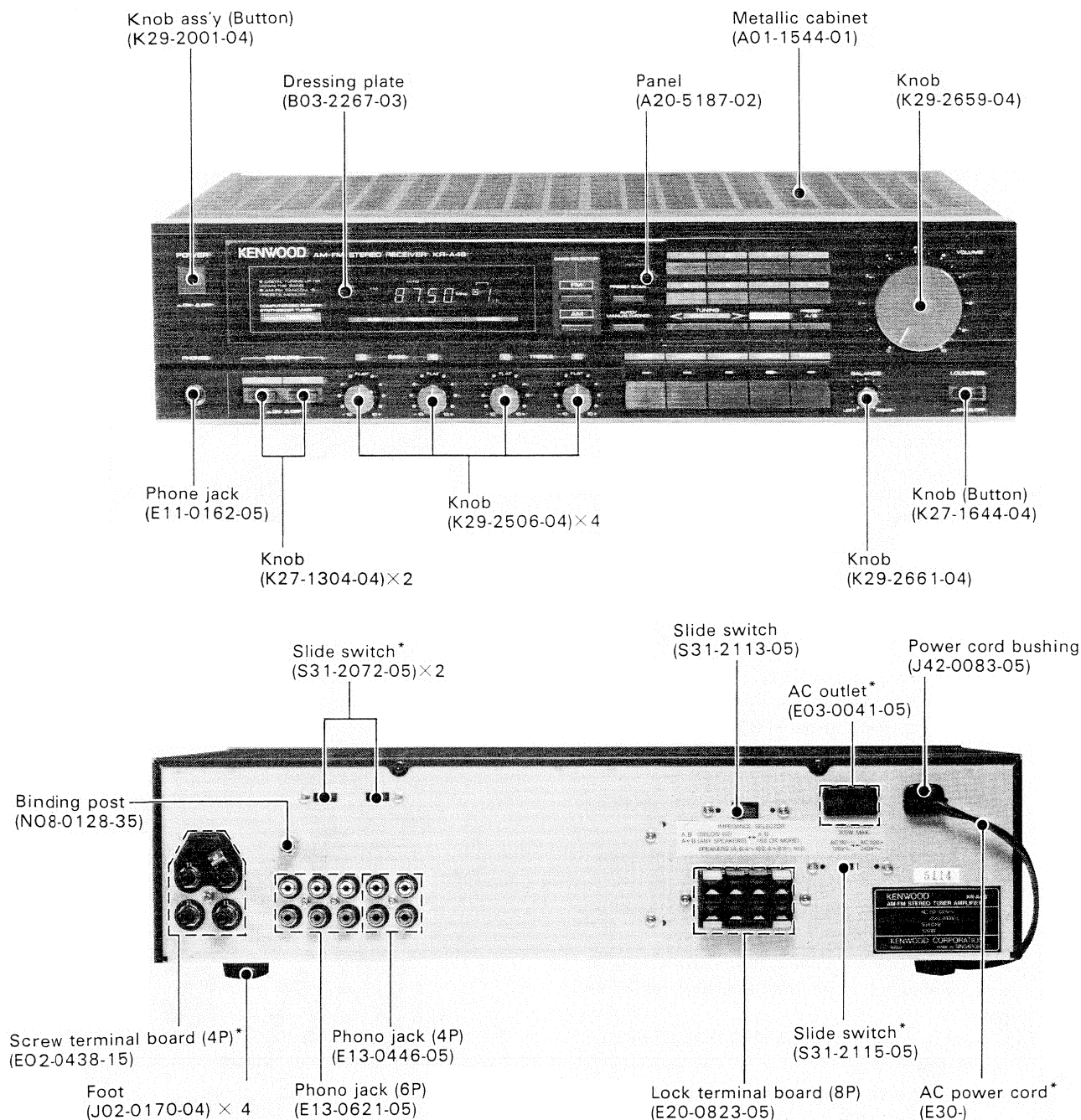
AM-FM STEREO RECEIVER

KR-A46

SERVICE MANUAL

KENWOOD

© 1987-6 PRINTED IN JAPAN
B51-3208-00 (G) 2238



* Refer to parts list on page 28.

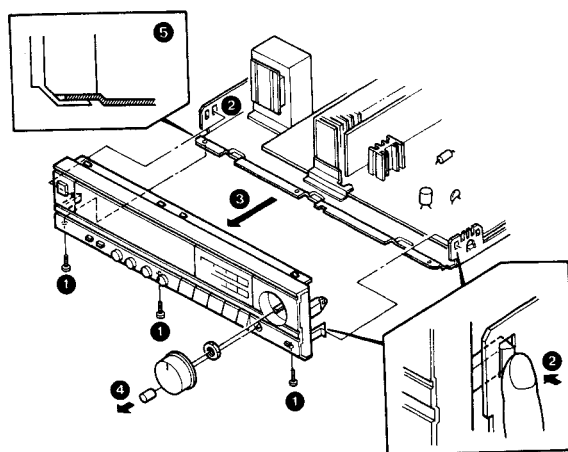
CONTENTS

| | |
|------------------------------|------------|
| DISASSEMBLY FOR REPAIR | 2 |
| BLOCK & LEVEL DIAGRAM | 3 |
| CIRCUIT DESCRIPTION | 4 |
| ADJUSTMENT | 15 |
| REGLAGE | 16 |
| ABGLEICH | 17 |
| PC BOARD | 19 |
| SCHEMATIC DIAGRAM | 23 |
| EXPLODED VIEW | 27 |
| PARTS LIST | 28 |
| SPECIFICATIONS | Back cover |

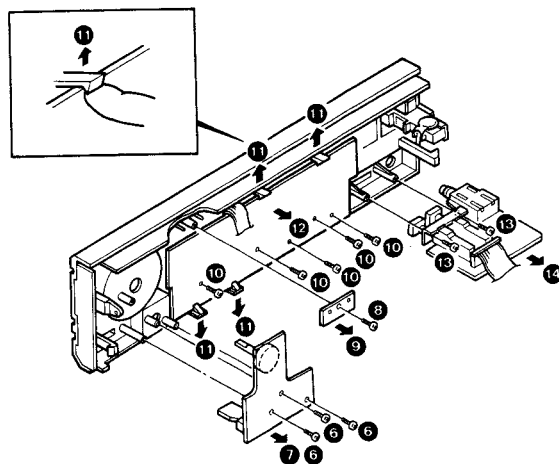
DISASSEMBLY FOR REPAIR

(Remove the metallic cabinet before performing the following operations.)

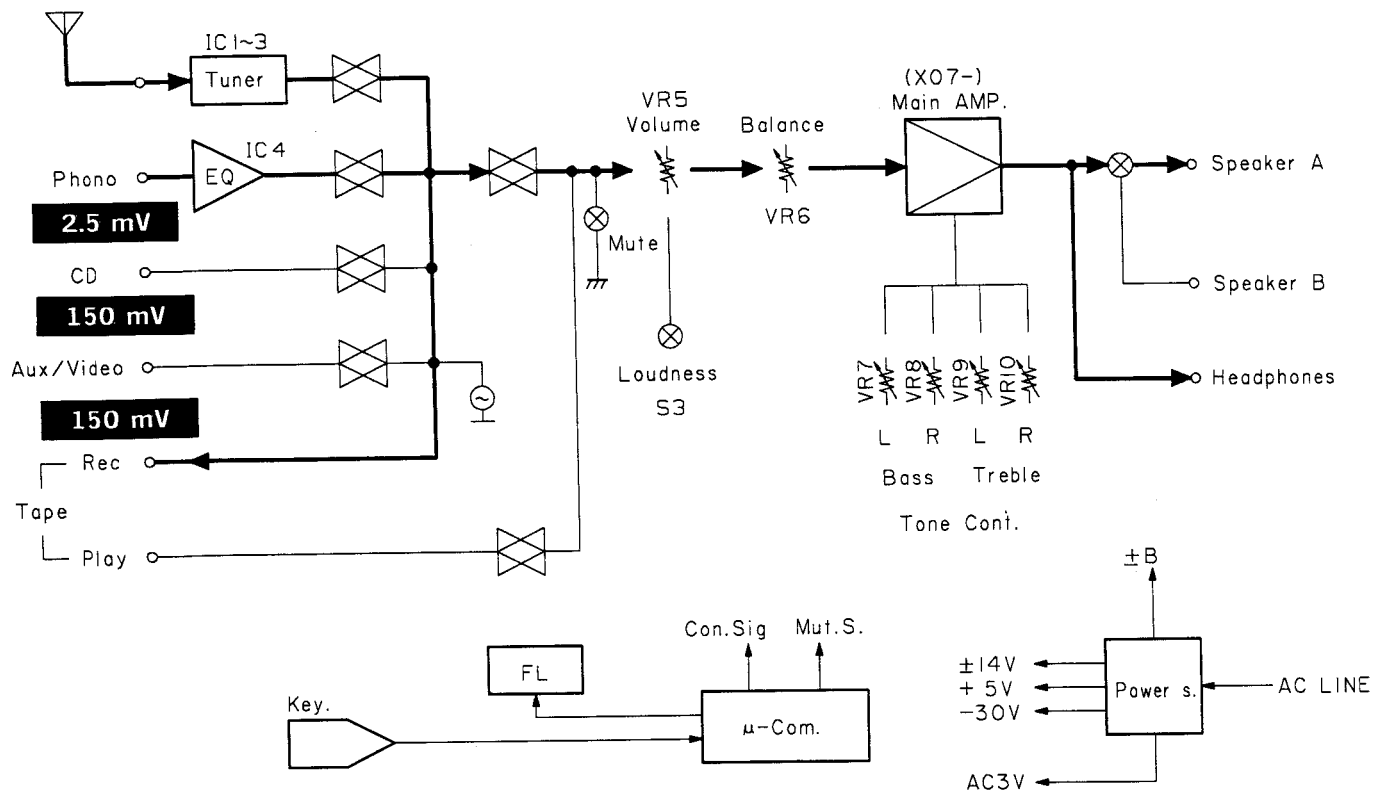
1. Remove the 3 screws fixing the front panel to the chassis (1).
2. Disengage the 2 claws of the sub panel from the chassis (2).
3. Remove the front panel together with the sub panel in the direction of the arrow (3).
4. Pull out the 2 knobs of the VOLUME and BALANCE from the shafts, and remove the hex. nut from the VOLUME shaft (4).
5. When installing the front panel, pay attention to the mounting position related to the chassis (5).



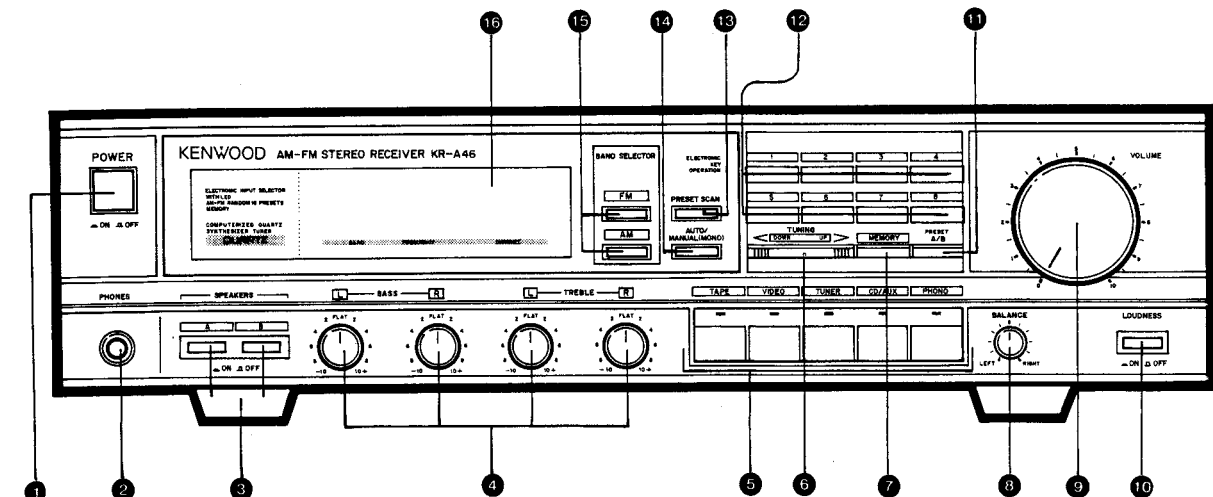
6. Remove the 3 screws fixing the Receiver Unit (X14-2180-10) (B/8) to the sub panel (6).
7. Remove the Receiver Unit (X14-) (B/8) in the direction of the arrow (7).
8. Remove the screw fixing the Receiver Unit (X14-) (H/8) to the sub panel (8).
9. Remove the Receiver Unit (X14-) (H/8) in the direction of the arrow (9).
10. Remove the 5 screws fixing the Receiver Unit (X14-) (G/8) to the sub panel (10).
11. Disengage the 4 claws (upper side: 2, lower side: 2) of the sub panel which retain the Receiver Unit (X14-) (G/8) (11).
12. Remove the Receiver Unit (X14-) (G/8) in the direction of the arrow (12).
13. Remove the 2 screws fixing the multiple push switch (S4) to the sub panel (13).
14. Remove the multiple push switch (S4) together with the Receiver Unit (X14-) (C/8) in the direction of the arrow (14).



BLOCK & LEVEL DIAGRAM

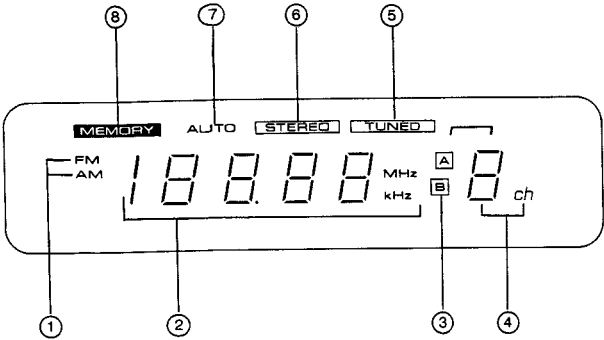


CONTROLS, INDICATORS AND CONNECTORS



- 1 POWER switch
- 2 PHONES jack
- 3 SPEAKERS A and B switches
- 4 Tone controls
- 5 Input selectors
- 6 TUNING key
- 7 MEMORY key
- 8 BALANCE control

- 9 VOLUME control
- 10 LOUDNESS switch
- 11 PRESET A/B selector switch
- 12 Preset channel keys
- 13 PRESET SCAN key
- 14 AUTO/MANUAL (MONO) switch
- 15 BAND SELECTOR switches
- 16 Digital frequency counter and channel display



- ① Band indicators
- ② Frequency display
- ③ Preset A/B selector indicators
- ④ Preset channel indicators
- ⑤ TUNED indicator
- ⑥ STEREO indicator
- ⑦ AUTO indicator
- ⑧ MEMORY indicator

CIRCUIT DESCRIPTION

Function of components

Receiver unit (X14-2180-10)

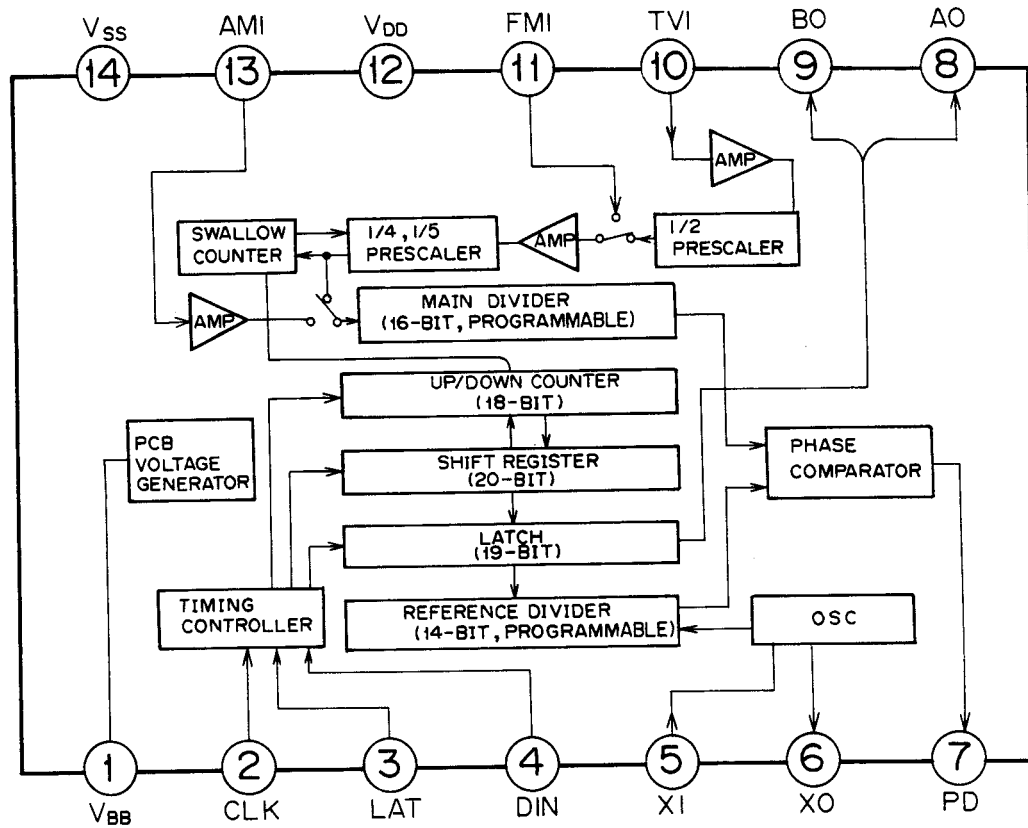
| Components | Use/Function | Operation/Condition/Interchangeability |
|------------|--------------------------|--|
| Q1 | FM IF amp | |
| Q2 | Buffer amp | |
| Q3, 4 | L.P.F. | Tuning voltage. |
| Q5, 6 | FM +B control | |
| Q7, 8 | AM +B control | |
| Q9, 10 | Temperature compensation | |
| Q11 ~ 14 | Power transistor | Darlington circuit. |
| Q15 ~ 18 | Muting | |
| Q19 | Muting control | |
| Q20 | Indication driver | STEREO display. |
| Q21 | Indication driver | TUNED display. |
| Q22 | Channel space selection | On: 9kHz, 50kHz, OFF: 10kHz, 100kHz. |
| Q23 | LED driver | For phono. |
| Q24, 25 | Constant voltage circuit | +14, darlington circuit. |
| Q26 | Error amplifier | +14V. |
| Q27 | Constant voltage circuit | +5V. |
| Q28 | Interrupting control | +5V. |
| Q29 | Constant voltage circuit | -24V. |
| IC1 | IF detector | |
| IC2 | PLL | |
| IC3 | FM MPX | |
| IC4 | Op amp | |
| IC5 | Input selector | |
| IC6 | Microcomputer | |

Power amplifier unit (X07-2360-10)

| Components | Use/Function | Operation/Condition/Interchangeability |
|------------|------------------------|--|
| Q1 ~ 4 | Differential amp | First stage. |
| Q5 ~ 8 | Differential amp | Class A amplifier. |
| Q9, 10 | Regulated power supply | Current Miller. |
| Q11 ~ 14 | Predriver | Darlington. |
| Q15, 16 | Protection | Current detection. |
| Q17 | Protection | Driver. |
| Q18 | Muting control | Switching ON/OFF of positive power supply for the first stage. |
| Q19 | Ripple filter | |

IC2: CX7925B Frequency Synthesizer PLL IC

Block diagram and terminal configuration diagram



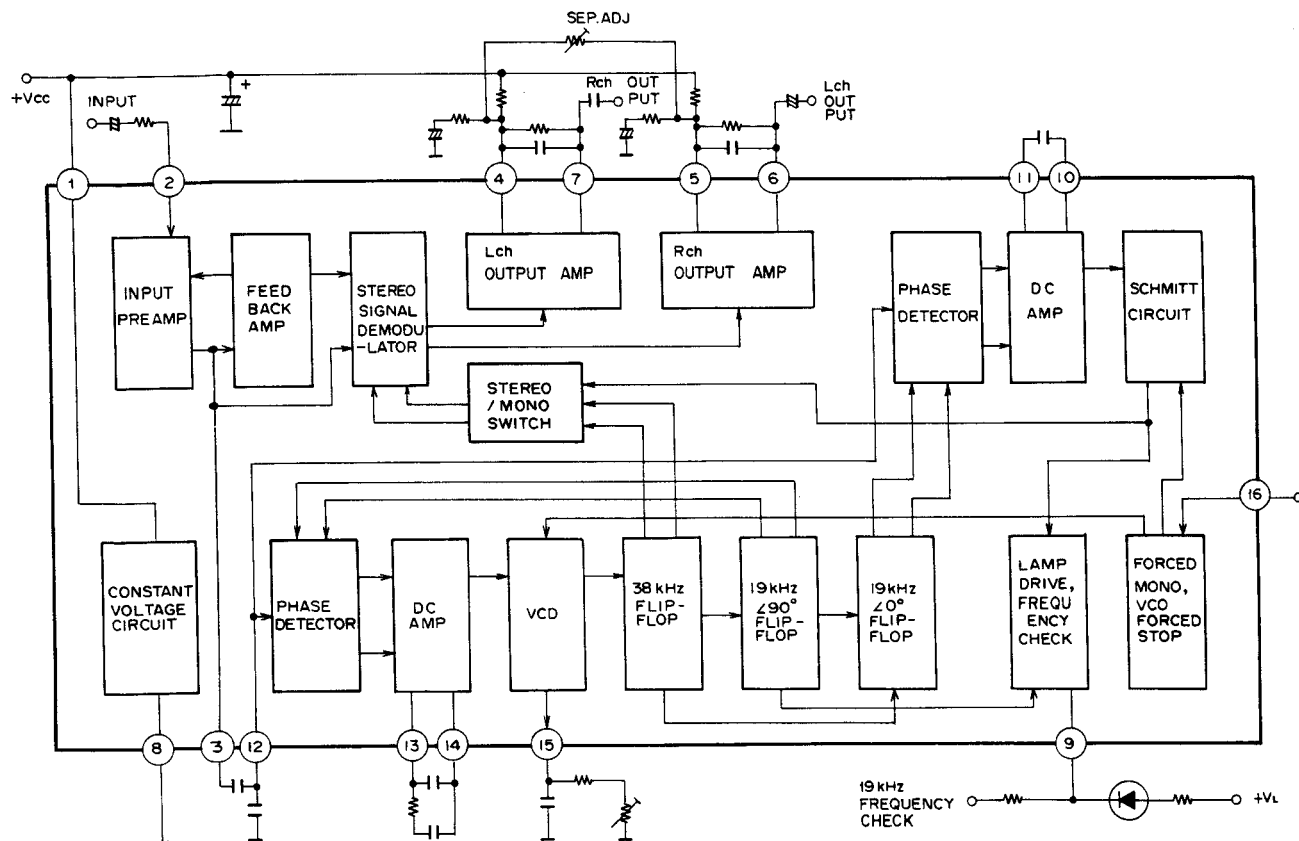
Terminal description

| Terminal No. | Symbol | Terminal Description |
|--------------|-----------------|--|
| 1 | V _{BB} | PCB terminal (Connect a 0.01 μ F capacitor between the GND). |
| 2 | CLK | Input terminal for the clock used for 20-bit serial data input (Shifted at the rise). |
| 3 | LAT | Input terminal for the shift register input data latch signal (shifted at the rise) and, at the same time, for the Up/Down clock (status changed at the rise). |
| 4 | DIN | Data input terminal, also the Up/Down mode switching terminal (Up mode with "H" level, Down mode with "L" level). |
| 5 | XI | Connection terminals for the reference signal generator X'tal oscillator. (Max. 13 MHz, standard 4.0 MHz) |
| 6 | XO | |
| 7 | PD | Phase comparator output terminal (3-state). |
| 8 | AO | External control signal output terminal/Unlock signal output terminal (E/E MOS push-pull). |
| 9 | BO | External control signal output terminal/data check terminal (E/E MOS push-pull). |
| 10 | TVI | High-frequency signal input terminal (300 MHz or 350 MHz max.). With 1/2 prescaler. |
| 11 | FMI | High-frequency signal input terminal (150 MHz or 180 MHz max.). |
| 12 | V _{DD} | Power supply (+5V). |
| 13 | AMI | High-frequency signal input terminal (40 MHz or 50 MHz max.). |
| 14 | V _{SS} | Grounding terminal. |

IC3: AN7470

FM MPX IC

Equivalent block diagram

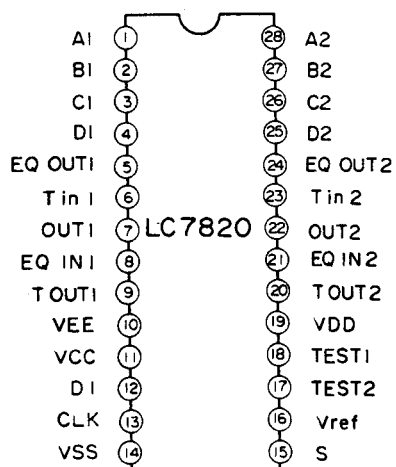


Terminal connection and functions

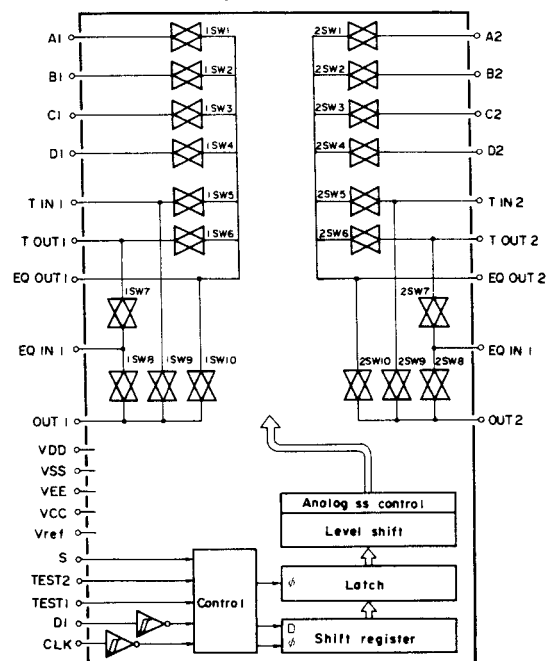
| Terminal No. | Connection/Function |
|--------------|---|
| 1 | Supply voltage (+Vcc) |
| 2 | Stereo composite signal, input terminal |
| 3 | Input preamp, output terminal |
| 4 | L CH output amp, feedback terminal |
| 5 | R CH output amp, feedback terminal |
| 6 | R CH output amp, output terminal |
| 7 | L CH output amp, output terminal |
| 8 | Grounding terminal |
| 9 | Stereo display lamp drive and 19 kHz frequency check terminal |
| 10 | Stereo signal detector circuit, low-pass filter terminal |
| 11 | Stereo signal detector circuit, low-pass filter terminal |
| 12 | PLL circuit, input terminal |
| 13 | PLL circuit, low-pass filter terminal |
| 14 | PLL circuit, low-pass filter terminal |
| 15 | VCO freerun oscillation frequency adjustment terminal |
| 16 | Forced mono/forced VCO oscillation stop terminal |

IC5: LC7820 Input selector IC




Pin connection



Equivalent block diagram



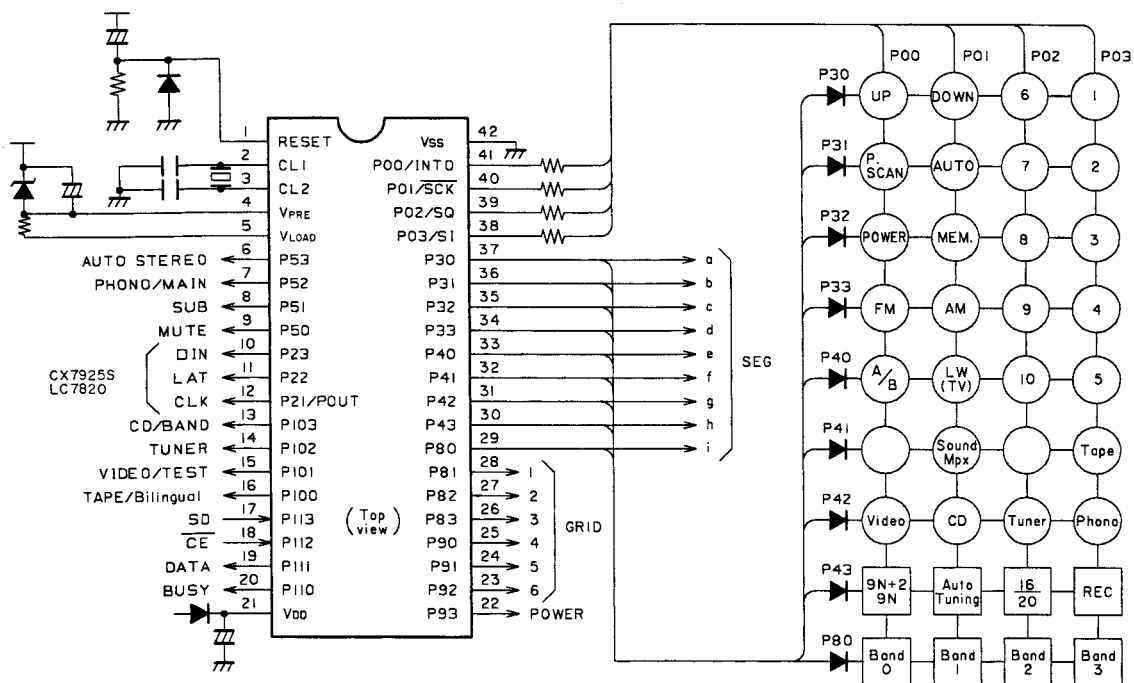
Explanation of terminals

| Name | Pin no. | Pin type | Function | | | | | | |
|--|--|---|---|---|----------|---|-----|---|-----|
| V _{DD} | 19 | | Power supply pin, +18V-type. Power supply for audio signal. | | | | | | |
| V _{ref} | 16 | | Power supply pin, V _{DD} 5V-type. For internal logic drive. | | | | | | |
| V _{SS} | 14 | | Power supply pin, 0V. | | | | | | |
| V _{EE} | 10 | | Power supply pin, −18V-type. Power supply for audio signal. | | | | | | |
| V _{CC} | 11 | | Power supply pin, +5V-type. For input logic.I _o . | | | | | | |
| D1 | 12 |  | ● Input pin for data from CPU. ● Schmitt inverter type. | | | | | | |
| CLK | 13 | | ● Input pin for CLK signal from CPU. ● Schmitt inverter type. | | | | | | |
| A 1, 2 B 1, 2 C 1, 2 D 1, 2 T in 1, 2 EQin 1, 2 | 1, 28 2, 27 3, 26 4, 25 6, 23 8, 21 | 1, 2SWn  A 1, 2 B 1, 2 C 1, 2 D 1, 2 T out 1, 2 EQ out 1, 2 OUT 1, 2 | Audio signal input pin. Simultaneous operation in 1SWn, 2SWn. | | | | | | |
| OUT 1, 2 T out 1, 2 EQ out 1, 2 | 7, 22 9, 20 5, 24 | | Audio signal output pin. | | | | | | |
| S | 15 |  | Select pin when two ICs are used. <table><tr><td>S</td><td>key code</td></tr><tr><td>0</td><td>7D2</td></tr><tr><td>1</td><td>7D3</td></tr></table> | S | key code | 0 | 7D2 | 1 | 7D3 |
| S | key code | | | | | | | | |
| 0 | 7D2 | | | | | | | | |
| 1 | 7D3 | | | | | | | | |

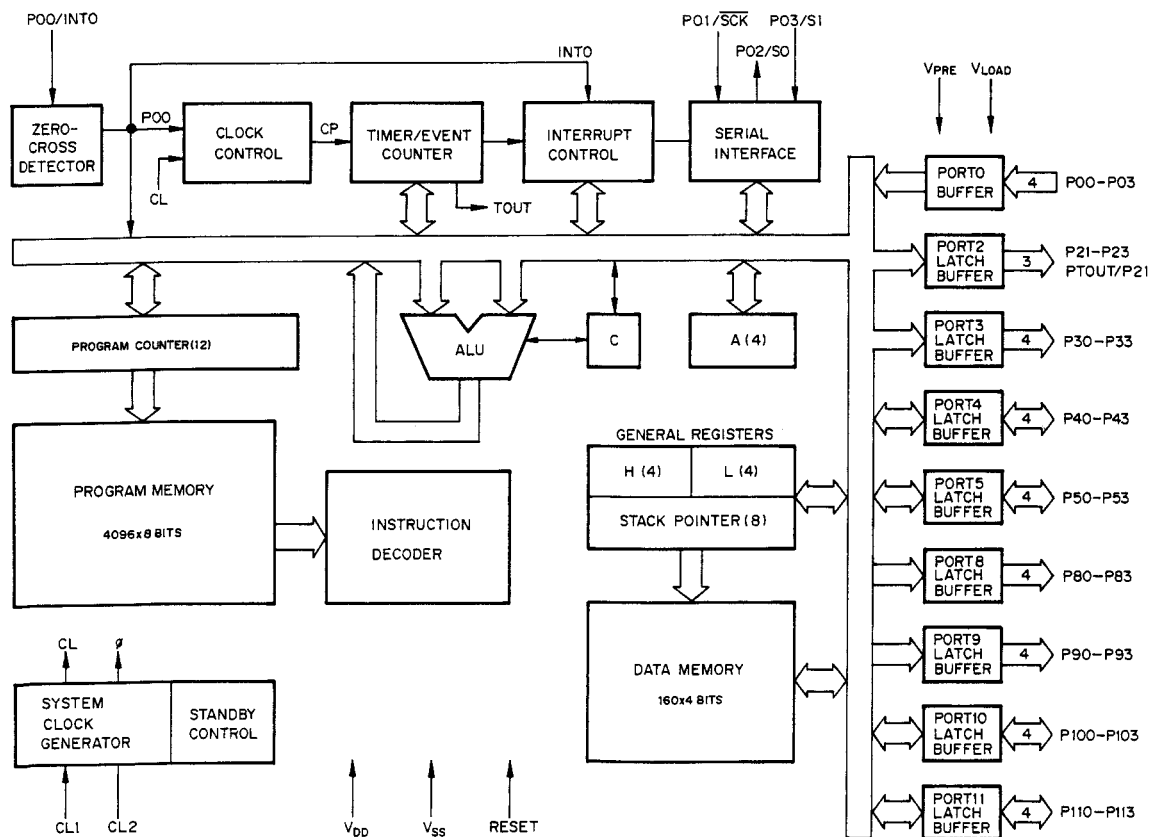
KR-A46

IC6: μ PD 7538AC-041 Microprocessor IC

Terminal connection diagram & key matrix connection



Block diagram



Function of the diode switch

1. Models for each designated area and function setting switches

| Model for designated area | Set switch | | | | BAND | Receiving frequency range | Channel spacing | Reference frequency | Middle frequency |
|---------------------------|------------|--------|--------|--------|----------|-------------------------------|-----------------|---------------------|------------------|
| | Band 3 | Band 2 | Band 1 | Band 0 | | | | | |
| K | 1 | 0 | 0 | 0 | FM | 87.5 ~ 108 MHz | 100 kHz | 50 kHz | 10.7 MHz |
| | | | | | AM | 530 ~ 1610 MHz | 10 kHz | 10 kHz | 450 kHz |
| E | 1 | 1 | 0 | 1 | FM | 87.5 ~ 108 MHz | 50 kHz | 50 kHz | 10.7 MHz |
| | | | | | MW | 531 ~ 1602 kHz | 9 kHz | 9 kHz | 450 kHz |
| | | | | | LW | 153 ~ 281 kHz | 1 kHz | 1 kHz | 450 kHz |
| M | 1 | 1/0 | 0 | 0 | FM AM | K type or E type (without LW) | | | |

- Band 3 H Overseas
 L Domestic (Japan)
- Band 2 H FMch space 50 kHz & AMch space 9 kHz
 L FMch space 100 kHz & AMch space 10 kHz
- Band 1 H Without auto tuning function only for LW broadcast
- Band 0 H With LW: Indication (FM, MW, LW)
 L Without LW: Indication (FM, AM)
 LW key is not accepted.

2. Stop frequency select switch for auto tuning in LW reception

This switch is used to set the frequency which intakes the SD signal in LW band reception. For both manual and auto tuning, the tuning frequency is changed up or down in 1 kHz step, however, in auto tuning mode, the receiving frequency stops at the following frequency selected by this switch.

- Setting of this switch can be changed without resetting (unplugging/plugging the AC cord.)

| 9N+2 / 9N | Frequency range | Channel spacing | Reference frequency | Middle frequency | Stop frequency |
|-----------|-----------------|-----------------|---------------------|------------------|-----------------------------|
| 1 | 153 ~ 281 kHz | 1 kHz | 1 kHz | 450 kHz | 155, 164 272, 281 kHz |
| 0 | 153 ~ 281 kHz | 1 kHz | 1 kHz | 450 kHz | 153, 162 270, 279 kHz |

3. Auto tuning

| Auto tuning | Auto tuning function | Auto/Mono KEY |
|-------------|----------------------|---|
| 1 | Not available | Mono/Stereo function only |
| 0 | Available | This key is also used as the Auto/Manual tuning mode key. |

4. Others

| Set switch | Function |
|------------|-----------|
| 0 | Preset 16 |
| 1 | Preset 20 |
| 0 | KT-56 |
| 1 | KR-A46 |

Port allocation

| Port | | Pin No. | I/O Mode | Active Mode | Function |
|-------|---|---------|----------|-------------|---|
| P0 | 0 | 41 | I | H | Key return signal input |
| | 1 | 40 | I | H | Key return signal input |
| | 2 | 39 | I | H | Key return signal input |
| | 3 | 38 | I | H | Key return signal input |
| P2 | 1 | 12 | O | H | PLL IC (CX7925B) Function SW (LC7820) Data output |
| | 2 | 11 | O | H | PLL IC (CX7925B) LAT output |
| | 3 | 10 | O | H | PLL IC (CX7925B) Function SW (LC7820) CLK output |
| P3 | 0 | 37 | O | H | Key strobe signal output, FL display segment output: a |
| | 1 | 36 | O | H | Key strobe signal output, FL display segment output: b |
| | 2 | 35 | O | H | Key strobe signal output, FL display segment output: c |
| | 3 | 34 | O | H | Key strobe signal output, FL display segment output: d |
| P4 | 0 | 33 | O | H | Key strobe signal output, FL display segment output: e |
| | 1 | 32 | O | H | Key strobe signal output, FL display segment output: f |
| | 2 | 31 | O | H | Key strobe signal output, FL display segment output: g |
| | 3 | 30 | O | H | Key strobe signal output, FL display segment output: h |
| P8 | 0 | 29 | O | H | Key strobe signal output, FL display segment output: i |
| | 1 | 28 | O | H | FL display digit control pin: GRID 1 |
| | 2 | 27 | O | H | FL display digit control pin: GRID 2 |
| | 3 | 26 | O | H | FL display digit control pin: GRID 3 |
| VDD | | 21 | — | — | Power supply input pin (5V) |
| VSS | | 42 | — | — | GND |
| P9 | 0 | 25 | O | H | FL display digit control pin: GRID 4 |
| | 1 | 24 | O | H | FL display digit control pin: GRID 5 |
| | 2 | 23 | O | H | FL display digit control pin: GRID 6 |
| | 3 | 22 | O | H | Power pin |
| P10 | 0 | 16 | O | H | Input port: TV mode "Bilingual" pin (H) Output port: Receiver selector "TAPE" |
| | 1 | 15 | O | H | Input port: TEST pin (H) Output port: Receiver selector "VIDEO" |
| | 2 | 14 | O | H | Receiver selector "TUNER" |
| | 3 | 13 | O | H | Receiver design: Receiver selector "CD" System component design: Band data output (UHF: H) |
| P11 | 0 | 20 | I/O | H | Serial signal BUSY pin |
| | 1 | 19 | I/O | H | Serial signal DATA pin |
| | 2 | 18 | I | L | Back up detection pin |
| | 3 | 17 | I | H | Station detection pin for auto tuning mode |
| P5 | 0 | 9 | O | H | Muting signal |
| | 1 | 8 | O | H | TV SUB pin |
| | 2 | 7 | O | H | Receiver design: Receiver selector "PHONO" System component design: TV MAIN pin |
| | 3 | 6 | O | H | MONO/ST key to control Stereo (L) Mono (H) |
| RESET | | 1 | I | H | Reset signal |
| CL1 | | 2 | — | — | Clock |
| CL2 | | 3 | — | — | Clock |
| VPRE | | 4 | — | — | Power supply for FL display pre-driver |
| VLOAD | | 5 | — | — | Power supply for FL display driver (−30V) |

Key matrix layout

| Input Output | P00 (41) | P01 (40) | P02 (39) | P03 (38) |
|-----------------|----------------|--------------------|-------------------------|---------------------|
| P30 (37) | UP | DOWN | 6 | 1 |
| P31 (36) | Preset Scan | AUTO MONO | 7 | 2 |
| P32 (35) | Power | Memory | 8 | 3 |
| P33 (34) | FM | AM | 9 | 4 |
| P40 (33) | A/B | LW (TV) | 10 | 5 |
| P41 (32) | | Sound multiplex | | Tape |
| P42 (31) | Video | CD | Tuner | Phono |
| P43 (30) | 9N + 2 9N | *Auto tuning | *16 Preset 20 Preset | *Syscon Receiver |
| P80 (29) | *Band 0 | *Band 1 | *Band 2 | *Band 3 |

- Values in brackets () shows the pin number of microcomputer.
- Items with an asterisk (*) shows the diode switch. Others are momentary switches.
- LW (9N+2/9N) is the slide switch on the rear panel.
- Key-intake is active high.

Tuner function

1. Manual tuning

Each time the UP/DOWN key is pressed, the tuning frequency is varied one step higher or lower. When this key is kept pressed for more than 0.5 seconds, the frequency is changed up or down at approx. 128 msec/step (approx. 224 msec/step for TV reception) until the key is released.

2. Auto tuning

When the AUTO/MONO switch is set to AUTO, pressing the UP/DOWN key starts auto tuning. The tuning frequency is changed up or down at approx. 128 msec/step (approx. 224 msec/step for TV reception) until the high-level signal is input to the SD pin. When the high-level signal is input, auto tuning operation stops.

3. Preset memory

Up to 16 or 20 frequencies (the maximum number of preset stations is set by the diode switch) can be preset randomly for FM, MW (AM) and LW (TV) stations.

a) How to preset

When the MEMORY key is pressed, the "MEMORY" indicator lights and the unit is set to the write-enable status. Writing to memory is possible for approx. 5 seconds after the MEMORY key is pressed. During this time, pressing any of the numeric key (1 – 10) will write the currently-received frequency into memory corresponding to the key pressed.

b) How to recall

When the tuner functions, pressing any of the preset keys will recall the stored contents corresponding to the key pressed.

4. Preset scan

When the PRESET SCAN key is pressed, the SD pin goes high level. A preset channel is received for 5

Test frequency

| Type | Preset Ch | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------|--------------|------|------|------|-------|-------|------|------|------|
| K | A | FM | | | | | | | |
| | | 87.5 | 89.1 | 98.0 | 106.0 | 108.0 | 87.5 | 87.5 | 87.5 |
| | B | AM | | | | | | | |
| | | 530 | 630 | 990 | 1440 | 1610 | 87.5 | 87.5 | 87.5 |
| E | A | FM | | | | AM | | | |
| | | 87.5 | 89.1 | 98.0 | 106.0 | 108.0 | 531 | 630 | 990 |
| | B | AM | | LW | | | | | FM |
| | | 1440 | 1602 | 153 | 162 | 216 | 270 | 281 | 87.5 |

● Test mode set-up: :

Set the test pin (P15) to high level, and invert it to low level after turning the power ON. (The entire FL display will light except for MEMORY.)

seconds, then the receiving frequency is changed to the next preset channel. When the SD pin is low level, the receiving channel is changed to the next preset channel after one second.

a) Key processing during scanning

- Preset key: Stops the scanning operation and receives the frequency of the designated preset channel.
- UP/DOWN key: Stops the scanning operation and processes the UP/DOWN function.

Function of tact switches

| Name | Function | | | | | | | | | | | | | | | | |
|--|---|-------------|------------|-------------|------------|------|------|---|---|-----|-----|---|---|------|----------|---|---|
| POWER | Power ON/OFF key. Each time this key is pressed, the Power pin is inverted. When the POWER switch is turned ON, the Power pin goes high level and the last channel (which is received when the power switch is turned off) is recalled. When the POWER switch is turned OFF, the Power pin goes low level and no indication will be displayed. | | | | | | | | | | | | | | | | |
| FM AM (MW) LW (TV) | Band select key for FM, AM (MW) and LW (TV). The reference data and the program data corresponding to the selected band will be transmitted to the PLL IC. However, if the band which is the same as that currently selected is selected, the command is not accepted. | | | | | | | | | | | | | | | | |
| UP DOWN | Frequency up/down key. <ul style="list-style-type: none">● Auto tuning When this key is pressed, the frequency is changing to the higher or lower scale at approx. 128 msec/step in the square mode. When the high-level signal is input to the SD pin, auto tuning operation is stopped and that frequency is received.● Manual tuning Each time this key is pressed, the frequency is changed up/down by one step (channel spacing). When it is kept pressed for more than 0.5 seconds, the frequency is changed at approx. 128 msec/step until the key is released. | | | | | | | | | | | | | | | | |
| Numeric keys (1 – 8) (numeric keys (1 – 10) for 20-memory model) MEMORY | <ul style="list-style-type: none">● Write key (during Memory indicator is lit). During approx. 5 seconds after the MEMORY key is pressed, pressing any of the numeric keys 1 – 8 (or 1 – 10) will write the frequency and the band which are currently received into the memory corresponding to the key pressed.● Recall (when Memory indicator is not lit) When any of the numeric keys 1 – 8 (or 1 – 10) is pressed, the memorized contents (band and frequency) corresponding to the key pressed will be recalled. When the VDD signal is initially input, the lowest frequency in the preset memories will be recalled for each band. | | | | | | | | | | | | | | | | |
| AUTO | Auto/Mono select key for FM broadcast. Each time this key is pressed, the FM reception mode alternates between Auto and Mono. The Auto indicator lights and the Auto/Mono pin is inverted. <ul style="list-style-type: none">● When auto tuning is available, this key is also used for the auto/manual tuning mode select key.● When this key is pressed during auto tuning, auto tuning operation stops and the manual tuning mode resumes. | | | | | | | | | | | | | | | | |
| Preset Scan | When this key is pressed, the preset channel (1 – 8 or 1 – 10) is scanned sequentially. When the receiving frequency is stored in memory, its contents (frequency and band) is recalled and received for approx. 5 seconds, then the next channel is received. When the receiving frequency is not stored in memory, the next channel is received after 1 second. | | | | | | | | | | | | | | | | |
| MAIN SUB | Sub Audio Program (bilingual audio channel) mode select key for TV broadcast (MAIN/SUB/BOTH). Each time the key is pressed, the SAP mode is changed in the order MAIN → SUB → BOTH, then MAIN resumes. The indication and the pin status for each mode are as follows: <table><tr><td>Mode</td><td>Indication</td><td>Port (Main)</td><td>Port (Sub)</td></tr><tr><td>MAIN</td><td>MAIN</td><td>H</td><td>L</td></tr><tr><td>SUB</td><td>SUB</td><td>L</td><td>L</td></tr><tr><td>BOTH</td><td>MAIN SUB</td><td>L</td><td>H</td></tr></table> This key is effective only when the band is set to the TV position. When set to another position, the MAIN or SUB indication will go off. | Mode | Indication | Port (Main) | Port (Sub) | MAIN | MAIN | H | L | SUB | SUB | L | L | BOTH | MAIN SUB | L | H |
| Mode | Indication | Port (Main) | Port (Sub) | | | | | | | | | | | | | | |
| MAIN | MAIN | H | L | | | | | | | | | | | | | | |
| SUB | SUB | L | L | | | | | | | | | | | | | | |
| BOTH | MAIN SUB | L | H | | | | | | | | | | | | | | |

| Name | Function |
|-------------------------------|--|
| A/B | Each time the key is pressed, the preset group is alternated between A preset (1 – 8 or 1 – 10) and B preset (1 – 8 or 1 – 10) for recalling or storing. When pressed in the memory write mode, the writing time is set to 5 seconds after pressing the key. |
| TUNER CD PHONO VIDEO | <p>Used only when the unit is set to the receiver mode. By pressing any of these select keys, the data is transmitted to the Selector IC and the input source is changed.</p> <ul style="list-style-type: none"> ● Keys related with the Tuner (except for the Preset and Band keys) are not accepted other than when the input selector is set to TUNER. ● When any input source other than TUNER is selected, pressing the Band key or Preset key will change the selector to TUNER. ● When the input selector which is the same as the current source is selected, muting does not function. |
| TAPE | <p>Tape monitor key.</p> <ul style="list-style-type: none"> ● When pressed, the input source indicator LED (TUNER, CD, PHONO or VIDEO) is not changed but the Selector IC is changed. ● When the Preset Scan or Frequency Scan is engaged with the selector TUNER selected, pressing this key does not stop the scanning operation. |

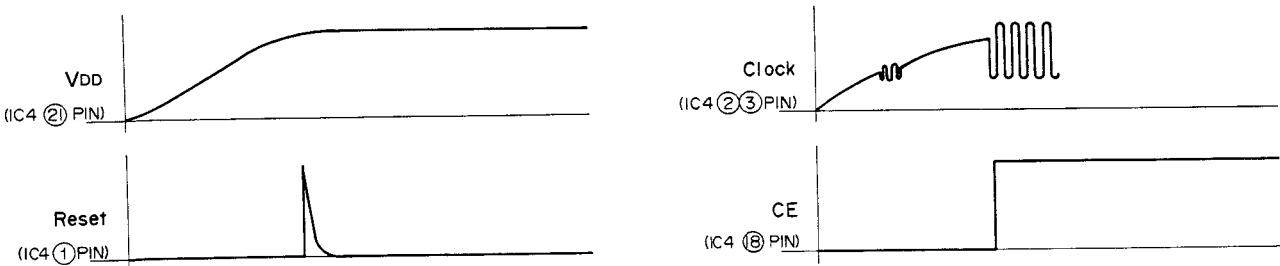
KR-A46

Clear function of microprocessor IC6

To reset the microprocessor IC4, reconnect the power cord while pressing the MEMORY button.

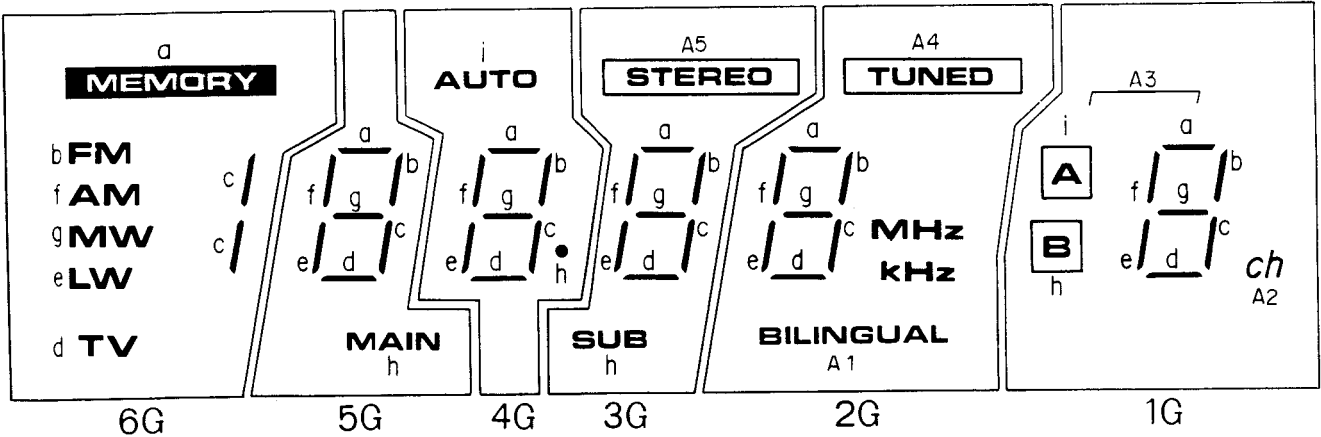
Operation of microprocessor IC6 at power ON

When voltage VDD at pin 21 (power supply) of IC4 is rises at power ON and the reset signal at pin 1 differentiated by CE signal (Chip Enable signal) at pin 18 rises to half of VDD, the clock starts. When the reset signal lowers to half of the VDD, the microprocessor starts operating and the unit is set to normal operation mode.



Fluorescent indicator tube FL1: FIP8BRM7A (X14-2180-10)

Terminal connection



| | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------|--------|---------|---------|---------|------------|------------|------------|------------|-------------|-------------|------------|-------------|------------|------------|------------|----------|----------|---------|---------|
| Terminal No. Electrode | 1 F | 2 F | 3 6G | 4 NP | 5 NP | 6 6G | 7 P(A5) | 8 P(A4) | 9 5G | 10 P(A3) | 11 P(A2) | 12 4G | 13 P(A1) | 14 3G | 15 P(i) | | | | | |
| Terminal No. Electrode | | | | | | 16 P(h) | 17 P(g) | 18 2G | 19 P(f) | 20 P(e) | 21 2G | 22 P(d) | 23 1G | 24 P(c) | 25 P(b) | 26 P(a) | 27 1G | 28 NP | 29 F | 30 F |

Notes F: Filament P: Anode
G: Grid NP: No pin

ADJUSTMENT

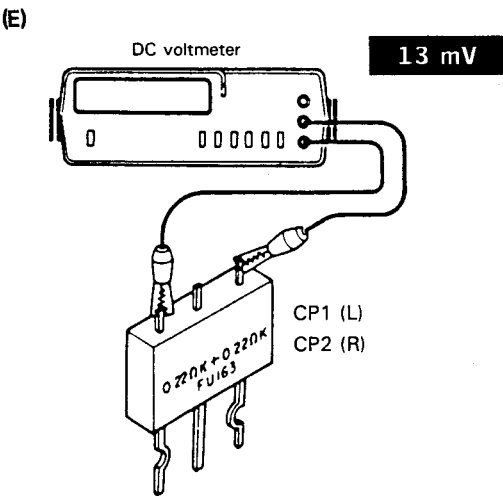
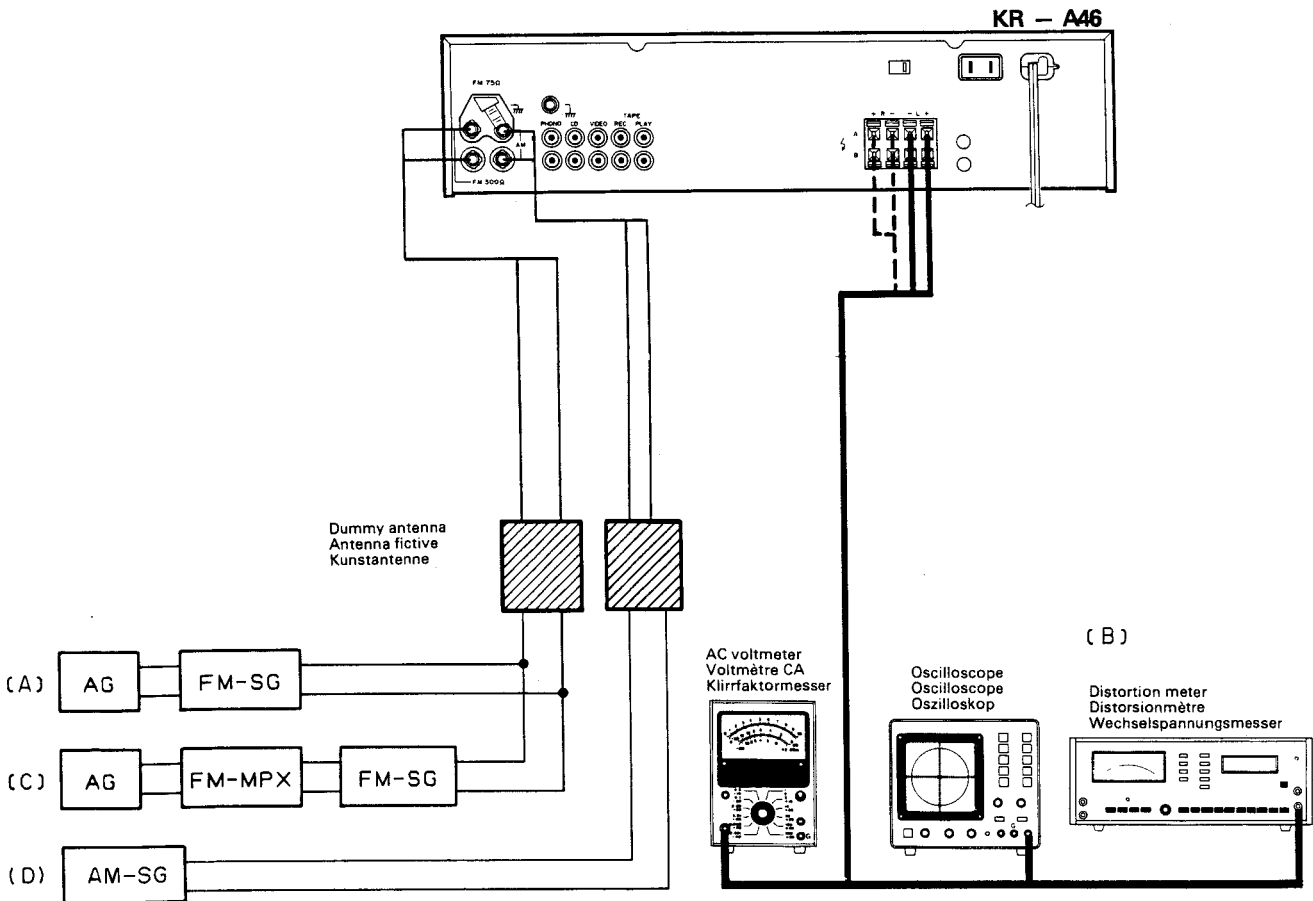
| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|--|------------------------|--|---|----------------------------|----------------------------|---|------|
| FM SECTION | | SELECTOR: FM | | | | | |
| 1 | DETECTOR | (A) 98.0MHz 1kHz, ±75kHz dev 60dBμ(Ant input) | Connect a DC voltmeter between TP2 and TP3. | AUTO or MONO 98.0MHz | L5 (X14-) | 0V | (a) |
| 2 | VCO | (A) 98.0MHz 0 dev 100dBμ(Ant input) | Connect a frequency counter between TP6 and GND. | AUTO 98.0MHz | VR4 (X14-) | 76.00kHz | (b) |
| 3 | SEPARATION (E Type) | (C) 98.0MHz Stereo signal 60dBμ(Ant input) | (B) | AUTO 98.0MHz | VR3 (X14-) | Minimum crosstalk. | |
| 4 | TUNING LEVEL | (A) 98.0MHz 0 dev 18dBμ(Ant input) 300Ω 14dBμ(Ant input) 75Ω | (B) | AUTO or MONO 98.0MHz | VR1 (X14-) | Adjust VR1 and stop at the point where FL1(TUNED) goes on. | |
| AM SECTION | | Keep the AM loop antenna installed. SELECTOR: AM | | | | | |
| (1) | BAND EDGE (Low) | — | Connect a DC voltmeter between TP7(GND) and TP8. | — | L3 (X14-) | 1.5V | (c) |
| (2) | BAND EDGE (High) | — | Connect a DC voltmeter between TP7(GND) and TP8. | — | TC2 (X14-) | 8.0V | (c) |
| Repeat alignments (1) and (2) several times. | | | | | | | |
| (3) | RF ALIGNMENT (1) | (D) 600kHz 20dBμ(Ant input) | (B) | — | L2 (X14-) | Maximum amplitude and symmetry of the oscilloscope display. | |
| (4) | RF ALIGNMENT (2) | (D) 1400kHz 20dBμ(Ant input) | (B) | — | TC1 (X14-) | Maximum amplitude and symmetry of the oscilloscope display. | |
| Repeat alignments (3) and (4) several times. | | | | | | | |
| (5) | IF TRANSFORMER | (D) 1000kHz 20dBμ(Ant input) | (B) | — | L6 (X14-) | Maximum amplitude and symmetry of the oscilloscope display. | |
| (6) | TUNING LEVEL | (D) 1000kHz 36dBμ(Ant input) | (B) | — | VR2 (X14-) | Adjust VR2 and stop at the point where FL1(TUNED) goes on. | |
| AUDIO SECTION | | | | | | | |
| [1] | IDLE CURRENT | — | (E) Connect a DC voltmeter across CP1(L) CP2(R) | Volume: 0 | VR1(L) VR2(R) (X07-) | 13mV | (d) |

REGLAGE

| N° | ITEM | REGLAGE DE L'ENTREE | REGLAGE DE LA SORTIE | REGLAGE DU TUNER | POINT DE L'ALIGNEMENT | ALIGNER POUR | FIG. |
|---|--|--|---|----------------------|----------------------------|--|------|
| SECTION MF | | SELECTEUR : FM | | | | | |
| 1 | DETECTEUR | (A) 98,0MHz 1kHz.±75kHz dév 60dBμ(Entrée ANT) | Relier un voltmètre CC entre les TP2 et TP3. | AUTO ou MONO 98,0MHz | L5 (X14-) | 0V | (a) |
| 2 | OSCILLATEUR CONTROLE PAR LA TENSION | (A) 98,0MHz 0 dév 100dBμ(Entrée ANT) | Relier un compteur de fréquence entre les TP6 et GND. | AUTO 98,0MHz | VR4 (X14-) | 76,00kHz | (b) |
| 3 | SEPARATION (E type) | (C) 98,0MHz Signal stéréo 60dBμ(Entrée ANT) | (B) | AUTO 98,0MHz | VR3 (X14-) | Diaphonie minimale. | |
| 4 | NIVEAU D' ACCORDER | (A) 98,0MHz 0 dév 18dBμ(Entrée ANT) 300Ω 14dBμ(Entrée ANT) 75Ω | - | AUTO ou MONO 98,0MHz | VR1 (X14-) | Ajuster VR1 et arrêter le mouvement de VR1 au moment où le FL1(TUNED)s'allume. | |
| SECTION MA | | Laisser l'antenne bouche MA installée. SELECTEUR: AM | | | | | |
| (1) | BORD DE BANDE (Bas) | - | Relier un voltmètre entre les TP7(GND) et TP8. | - | L3 (X14-) | 1,5V | (c) |
| (2) | BORD DE BANDE (Haut) | - | Relier un voltmètre entre les TP7(GND) et TP8. | - | TC2 (X14-) | 8,0V | (c) |
| Répéter les points (1) et (2) plusieurs fois. | | | | | | | |
| (3) | ALIGNEMENT H.T. (1) | (D) 600kHz 20dBμ(Entrée ANT) | (B) | - | L2 (X14-) | Amplitude et symétrie maximale de l'affichage de l'oscilloscope. | |
| (4) | ALIGNEMENT H.T. (2) | (D) 1400kHz 20dBμ(Entrée ANT) | (B) | - | TC1 (X14-) | Amplitude et symétrie maximale de l'affichage de l'oscilloscope. | |
| Répéter les points (3) et (4) plusieurs fois. | | | | | | | |
| (5) | TRANSFORMATEUR F.I. | (D) 1000kHz 20dBμ(Entrée ANT) | (B) | - | L6 (X14-) | Amplitude et symétrie maximale de l'affichage de l'oscilloscope. | |
| (6) | NIVEAU D' ACCORDER | (A) 1000kHz 36dBμ(Entrée ANT) | - | - | VR2 (X14-) | Ajuster VR2 et arrêter le mouvement de VR2 au moment où le FL1(TUNED)s'allume. | |
| SECTION AUDIO | | | | | | | |
| [1] | COURANA DE POLARISATION | - | (E) Connecter un voltmètre CC sur CP1(L) CP2(R) | Volume: 0 | VR1(G) VR2(D) (X07-) | 13mV | (d) |

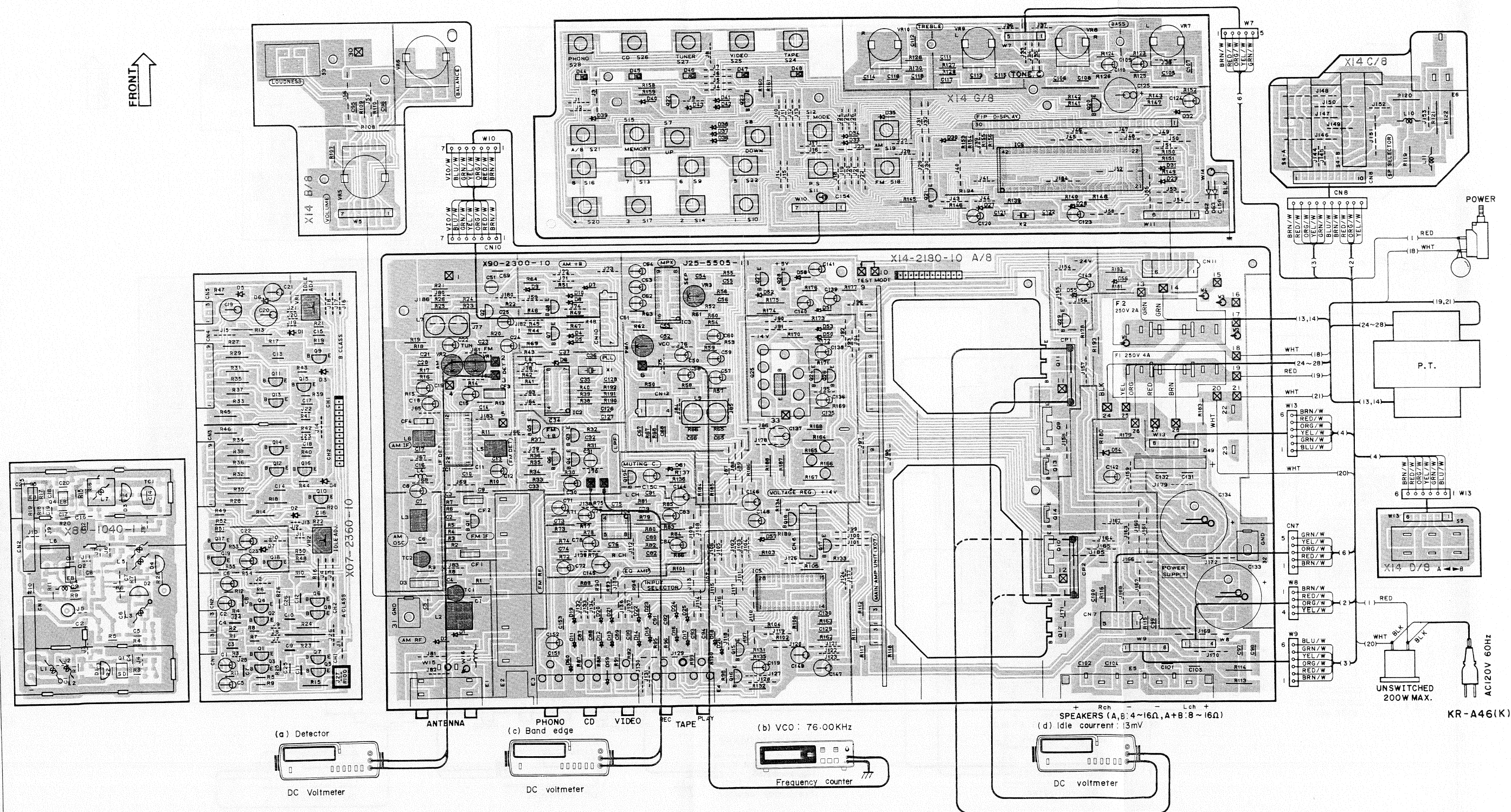
ABGIEICH

| NR. | GEGENSTAND | EINGANGS-EINSTELLUNG | AUSGANGS-EINSTELLUNG | TUNER-EINSTELLUNG | ABGLEICH-PUNKTE | ABGLEICHEN FÜR | ABB. |
|---|--|--|--|------------------------------|----------------------------|--|------|
| UKW-EMPFANGSABTEILUNG WÄHLER: FM | | | | | | | |
| 1 | DETEKTOR | (A) 98,0MHz 1kHz.±75kHz Hub 60dBμ(ANT-Eingang) | Einen Gleichspannungs- messer zwischen TP2 und TP3 anschließen. | AUTO oder MONO 98,0MHz | L5 (X14-) | 0V | (a) |
| 2 | SPANNUNGS- GEREGELTER OSZILLATOR | (A) 98,0MHz 0 Hub 100dBμ(ANT-Eingang) | Einen Frequenzzähler zwischen TP6 und GND anschließen. | AUTO 98,0MHz | VR4 (X14-) | 76,00kHz | (b) |
| 3 | STEREO KANAL TRENNUNG (E Type) | (C) 98,0MHz Stereo Signal 60dBμ(ANT-Eingang) | (B) | AUTO 98,0MHz | VR3 (X14-) | Minimal Klirrfaktor. | |
| 4 | ABSTIMM PEGEL | (A) 98,0MHz 0 Hub 18dBμ(ANT-Eingang) 300Ω 14dBμ(ANT-Eingang) 75Ω | — | AUTO oder MONO 98,0MHz | VR1 (X14-) | Den Pegel wiederstand aufdrehen, und dem VR1 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird. | |
| MW-EMPFANGSABTEILUNG Die MW-Rahmenantenne angebracht lassen. WÄHLER: AM | | | | | | | |
| (1) | BANDKANTE (Niedrig) | — | Einen Gleichspannungs- messer zwischen TP7(GND) und TP8 anschließen. | — | L3 (X14-) | 1,5V | (c) |
| (2) | BANDKANTE (Hoch) | — | Einen Gleichspannungs- messer zwischen TP7(GND) und TP8 anschließen. | — | TC2 (X14-) | 8,0V | (c) |
| Abstimmungen (1) und (2) mehrere Male wiederholen. | | | | | | | |
| (3) | HF-ABGLEICH (1) | (D) 600kHz 20dBμ(ANT-Eingang) | (B) | — | L2 (X14-) | Maximal Amplitude und Symmetrie des Oszilloskopbildes. | |
| (4) | HF-ABGLEICH (2) | (D) 1400kHz 20dBμ(ANT-Eingang) | (B) | — | TC1 (X14-) | Maximal Amplitude und Symmetrie des Oszilloskopbildes. | |
| Abstimmungen (3) und (4) mehrere Male wiederholen. | | | | | | | |
| (5) | ZF-UBERTRAGER | (D) 1000kHz 20dBμ(ANT-Eingang) | (B) | — | L6 (X14-) | Maximal Amplitude und Symmetrie des Oszilloskopbildes. | |
| (6) | ABSTIMM PEGEL | (A) 1000kHz 36dBμ(ANT-Eingang) | — | — | VR2 (X14-) | Den Pegel wiederstand aufdrehen, und dem VR2 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird. | |
| AUDIO-ABTEILUNG | | | | | | | |
| [1] | LEERLAUFSTROM | — | (E) Einen Gleichspannungs- messer über CP1(L) CP2(R) anschließen. | Volume: 0 | VR1(L) VR2(R) (X07-) | 13mV | (d) |



PC BOARD

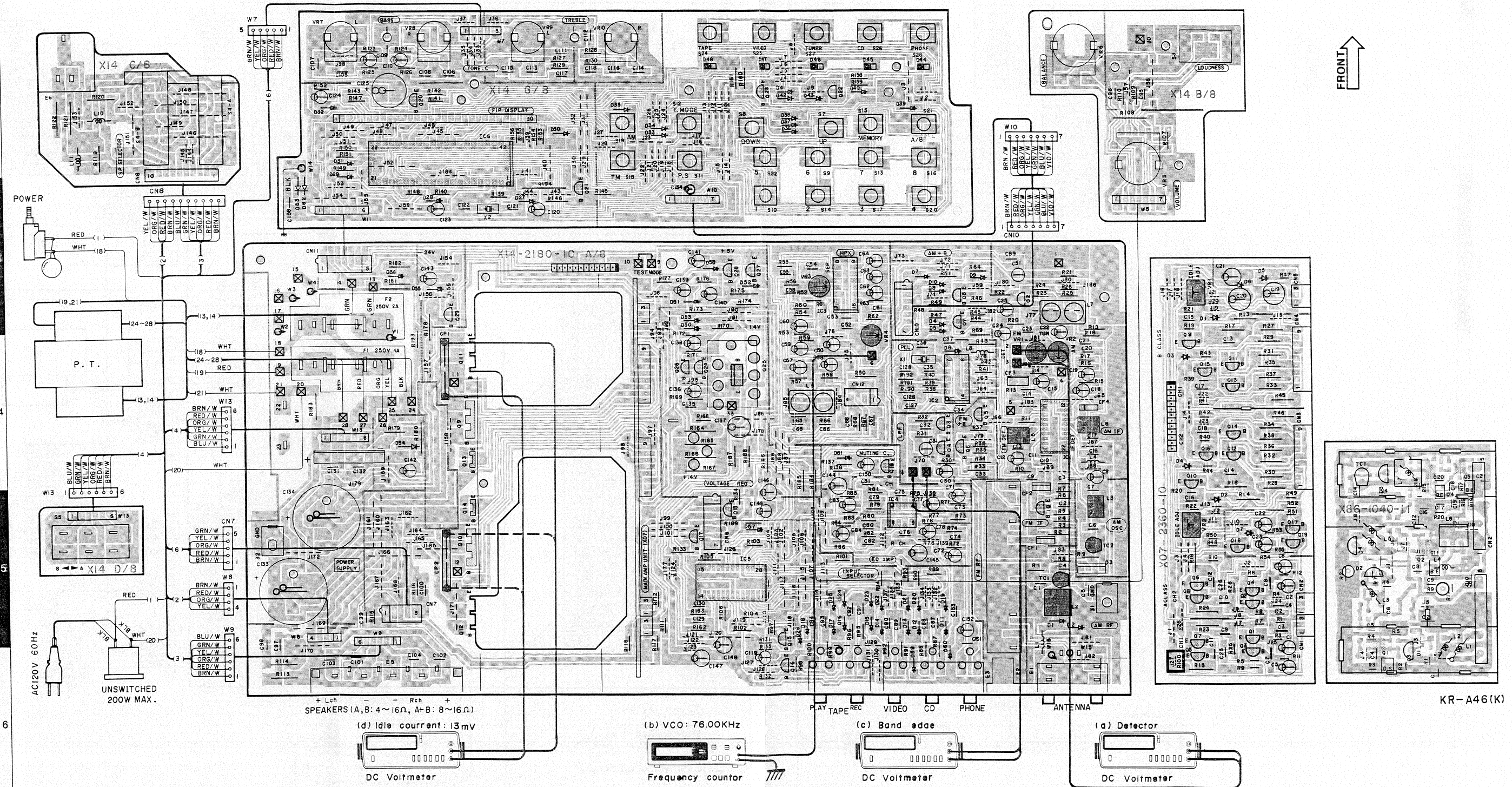
COMPONENT SIDE VIEW



Refer to the schematic diagram for the values of resistors and capacitors.

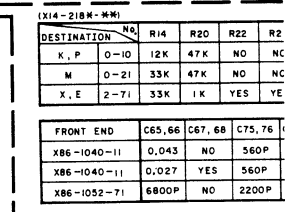
PC BOARD

FOIL SIDE VIEW



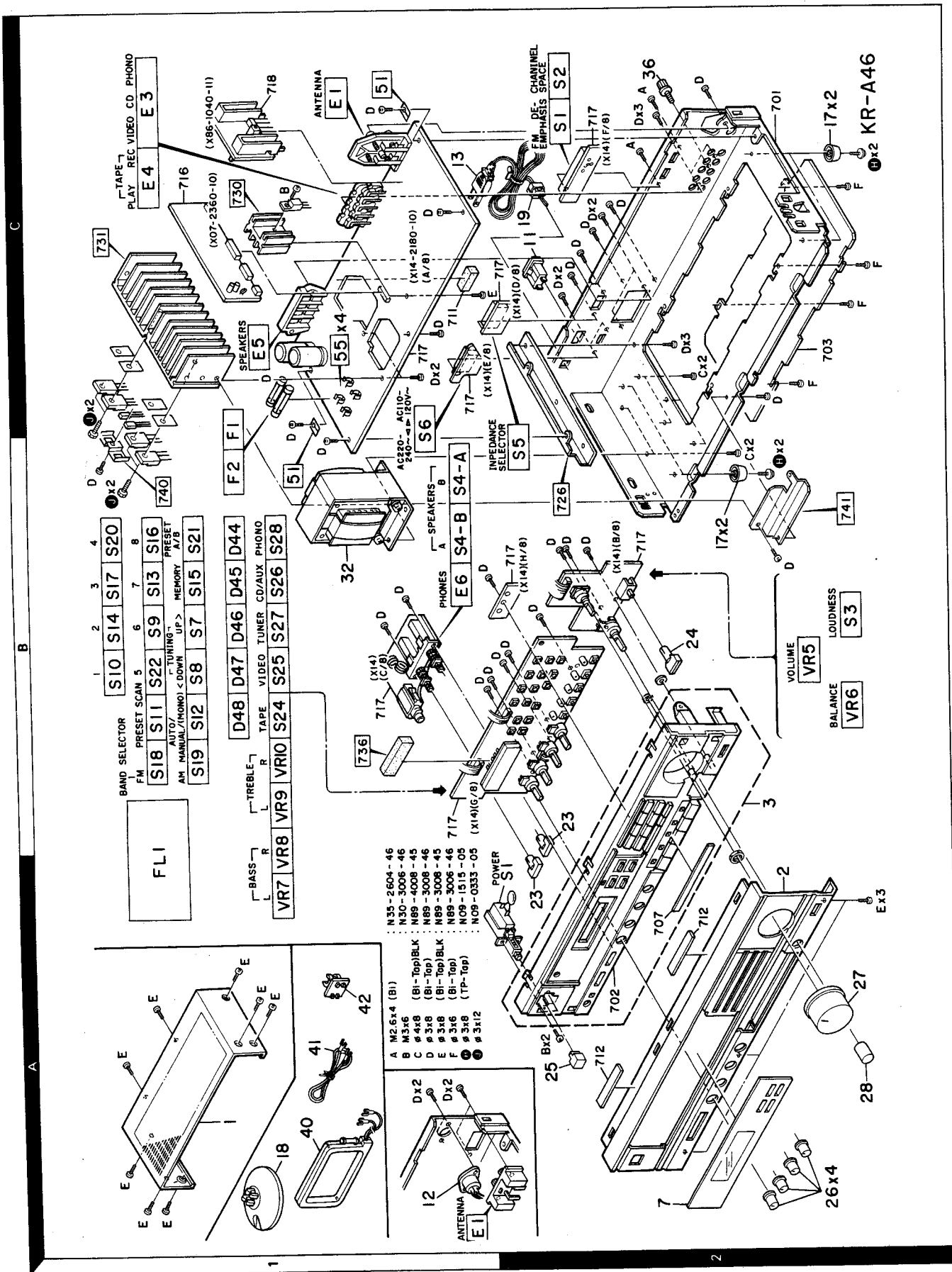


A perspective view of a 22-pin DIP package. The pins are numbered 1 to 22, starting from the bottom right and going counter-clockwise around the package.



| | | |
|-----------|---|----------------------------|
| D28 | : | RD10ES(B) or HZS10N(B) |
| D49 | : | RBV-402LFA |
| D50,51,56 | : | RD6.2ES(B2) or HZS6.2N(B2) |
| D53 | : | RD15ES(B) or HZS15N(B) |
| D54 | : | DSMIA1 |

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | New Parts | Parts No. | Description | Destination | Remarks |
|----------|---------|-----------|-------------|----------------------------------|-------------|---------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名 / 規格 | 仕向 | 備考 |
| KR-A46 | | | | | | |
| 1 | 1A | | A01-1544-01 | METALLIC CABINET | | |
| 2 | 2A | * | A20-5187-02 | PANEL | | |
| 3 | 2B | * | A22-0684-02 | SUB PANEL ASSY | | |
| 7 | 2A | * | B03-2267-03 | DRESSING PLATE | K | |
| | | | B46-0092-03 | WARRANTY CARD | X | |
| | | | B46-0096-13 | WARRANTY CARD | P | |
| | | | B46-0121-03 | WARRANTY CARD | E | |
| | | | B46-0122-13 | WARRANTY CARD | | |
| | | * | B50-6859-00 | INSTRUCTION MANUAL (ENGLISH) | K | |
| | | * | B50-6860-00 | INSTRUCTION MANUAL (ENG, FRE) | PMX | |
| | | * | B50-6861-00 | INSTRUCTION MANUAL (E, F, SP, A) | M | |
| | | * | B50-6862-00 | INSTRUCTION MANUAL (F, G, D) | E | |
| | | | B58-0269-04 | CAUTION CARD | K | |
| | | | B58-0803-03 | CAUTION CARD | E | |
| △ C1 | | | C91-0023-05 | CERAMIC 0.01UF AC250V | M | |
| △ C1 | | | C91-0647-05 | CERAMIC 0.01UF P | KPXE | |
| △ 11 | 2C | | E03-0041-05 | AC OUTLET | KPM | |
| △ 12 | 1A | | E04-0006-05 | RF COAXIAL CABLE RECEPTACLE | XE | |
| △ 13 | 1C | | E30-0459-05 | AC POWER CORD | E | |
| △ 13 | 1C | | E30-0812-05 | AC POWER CORD | M | |
| △ 13 | 1C | | E30-1341-05 | AC POWER CORD | X | |
| △ 13 | 1C | | E30-2209-05 | AC POWER CORD | KP | |
| | | * | H01-7454-04 | ITEM CARTON CASE | | |
| | | | H10-3400-02 | POLYSTYRENE FOAMED FIXTURE | | |
| | | | H25-0181-04 | PROTECTION BAG (150X260XD.05) | | |
| | | | H25-0223-04 | PROTECTION BAG (750X350XD.03) | | |
| | | | H25-0232-04 | PROTECTION BAG (235X350XD.03) | | |
| 17 | 2B, 2C | | J02-0170-04 | FOOT | | |
| △ 18 | 1A | * | J19-2815-04 | ANTENNA HOLDER | | |
| △ 19 | 2C | | J42-0083-05 | POWER CORD BUSHING | | |
| | | | J61-0307-05 | WIRE BAND | | |
| 23 | 2A, 2B | | K27-1304-04 | KN0B (BUTTON) SPEAKERS | | |
| 24 | 2B | * | K27-1644-04 | KN0B (BUTTON) LOUDNESS | | |
| 25 | 2A | * | K29-2001-04 | KN0B ASSY (BUTTON) POWER | | |
| 26 | 2A | * | K29-2506-04 | KN0B (BASS, TREBLE) | | |
| 27 | 2A | * | K29-2659-04 | KN0B (VOLUME) | | |
| 28 | 2A | * | K29-2661-04 | KN0B (BALANCE) | | |
| △ 32 | 1B | * | L01-7661-05 | POWER TRANSFORMER | K | |
| △ 32 | 1B | * | L01-7662-05 | POWER TRANSFORMER | E | |
| △ 32 | 1B | * | L01-7665-05 | POWER TRANSFORMER | M | |
| △ 32 | 1B | * | L01-7667-05 | POWER TRANSFORMER | P | |
| △ 32 | 1B | * | L01-7668-05 | POWER TRANSFORMER | X | |
| 36 | 2C | | N08-0128-35 | BINDING POST (GND) | | |
| H | 2B, 2C | | N09-1515-05 | TAPPING SCREW (Ø3X8) | | |
| △ S1 | 2A | | S40-1073-05 | PUSH SWITCH (POWER) | | |
| 40 | 1A | | T90-0104-25 | LOOP ANTENNA | | |
| 41 | 1A | | T90-0121-05 | T TYPE ANTENNA | | |
| 42 | 1A | | T90-0136-05 | ANTENNA ADAPTOR | XE | |

E: Scandinavia & Europe K: USA P: Canada

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

△ indicates safety critical components.

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|---|---------------|-------------------|---|--|------------------------|--------------------|
| POWER AMPLIFIER UNIT (X07-2360-10) | | | | | | |
| C1 ,2 C3 ,4 C5 ,6 C7 -12 C9 -12 | | * | CE04LW1H010M CC45FSL1H221J CE04LW1A470M CC45FSL1H680J CC45FSL1H680J | ELECTR0 1.0UF 50WV CERAMIC 220PF J ELECTR0 47UF 10WV CERAMIC 68PF J CERAMIC 68PF J | XE KPM | |
| C13 ,14 C15 ,16 C17 ,18 C19 ,20 C21 | | * | CC45FSL1H221J CK45FF1H103Z CK45FB1H222K CE04LW1H101M CE04LW1C101M | CERAMIC 220PF J CERAMIC 0.010UF Z CERAMIC 2200PF K ELECTR0 100UF 50WV ELECTR0 100UF 16WV | | |
| C22 C23 C25 ,26 | | * | CE04LW1H2R2M CE04LW1V100M CC45FSL1H020C | ELECTR0 2.2UF 50WV ELECTR0 10UF 35WV CERAMIC 2.0PF C | | |
| R13 ,14 R17 ,18 R23 ,24 R27 -30 R31 -34 | | | RD14GB2E221J RD14GB2E221J RD14GB2E271J RD14GB2E4R7J RD14GB2E221J | FL-PR00F RD 220 J 1/4W FL-PR00F RD 220 J 1/4W FL-PR00F RD 270 J 1/4W FL-PR00F RD 4.7 J 1/4W FL-PR00F RD 220 J 1/4W | | |
| R35 -38 R45 ,46 VR1 ,2 | | | RD14GB2E2R2J RD14GB2E470J R12-1070-05 | FL-PR00F RD 2.2 J 1/4W FL-PR00F RD 47 J 1/4W TRIMMING PNT. (1K) IDLE ADJ | | |
| D1 ,2 D1 ,2 D3 -6 D3 -6 D7 | | | 1SS133 1SS176 1SS131 1SS178 1SS133 | DIODE DIODE DIODE DIODE DIODE | | |
| D7 Q1 -4 Q5 -8 Q9 ,10 Q11 ,12 | | | 1SS176 2SA992(F,E) 2SC1845(F,E) 2SA992(F,E) 2SC3244 | DIODE TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q13 ,14 Q15 ,16 Q17 Q18 ,19 | | | 2SA1284 2SC1845(F,E) 2SA992(F,E) 2SC945(A)(Q,P) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| RECEIVER UNIT (X14-2180-10) | | | | | | |
| D44 -48 | | | B30-0431-05 | LED(LN21CPH) | | |
| C1 -4 C5 C6 C7 C8 | | | CK45FF1H103Z CK45FF1H223Z C009FS1H391J CK45FF1H103Z CE04LW1V100M | CERAMIC 0.010UF Z CERAMIC 0.022UF Z POLYSTY 390PF J CERAMIC 0.010UF Z ELECTR0 10UF 35WV | | |
| C9 -11 C12 C13 C14 C15 | | | CK45FF1H103Z CE04LW1C470M CK45FF1H103Z CC45FSL1H101J CE04LW1HR47M | CERAMIC 0.010UF Z ELECTR0 47UF 16WV CERAMIC 0.010UF Z CERAMIC 100PF J ELECTR0 0.47UF 50WV | | |
| C16 ,17 C18 C19 C20 C21 | | | CK45FF1H223Z CE04LW1H2R2M CE04LW1H3R3M CK45FF1H223Z CF92FV1H273J | CERAMIC 0.022UF Z ELECTR0 2.2UF 50WV ELECTR0 3.3UF 50WV CERAMIC 0.022UF Z MF 0.027UF J | | |

E: Scandinavia & Europe K: USA P: Canada
 U: PX(Far East, Hawaii) T: England M: Other Areas
 UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|--|---------------|-------------------|--|--|--------------------------|--------------------|
| C22 C23 C24 C25 C30 | | | CE04LW1V100M CK45FF1H223Z CK45FF1H103Z CE04LW1C470M CE04LW1C470M | ELECTR0 10UF 35WV CERAMIC 0.022UF Z CERAMIC 0.010UF Z ELECTR0 47UF 16WV ELECTR0 47UF 16WV | XE | |
| C31 C32 C33 ,34 C35 C36 | | | C90-1349-05 CF92FV1H473J CK45FF1H103Z CC45FCH1H560J CC45FCH1H270J | NP-ELEC 1UF 50WV MF 0.047UF J CERAMIC 0.010UF Z CERAMIC 56PF J CERAMIC 27PF J | | |
| C37 C38 C39 C50 C51 | | * | CK45FF1H103Z CC45FSL1H220J CK45FF1H103Z CE04LW1C331M C90-1332-05 | CERAMIC 0.010UF Z CERAMIC 22PF J CERAMIC 0.010UF Z ELECTR0 330UF 16WV NP-ELEC 10UF 16WV | | |
| C52 C53 C54 C55 ,56 C55 ,56 | | | CK45FB1H471K CF92FV1H473J CC45FSL1H151J CC45FSL1H151J CF92FV1H122J | CERAMIC 470PF K MF 0.047UF J CERAMIC 150PF J CERAMIC 150PF J MF 1200PF J | | |
| C57 ,58 C59 ,60 C61 C62 C63 | | * | CE04LW1H2R2M CE04LW1C220M C009FS1H471J CE04LW1H3R3M CE04LW1H2R2M | ELECTR0 2.2UF 50WV ELECTR0 22UF 16WV POLYSTY 470PF J ELECTR0 3.3UF 50WV ELECTR0 2.2UF 50WV | XE M KP XE M | |
| C64 C65 ,66 C65 ,66 C65 ,66 C67 ,68 | | * | CE04LW1HR47M CF92FV1H273J CF92FV1H433J CF92FV1H682J CF92FV1H153J | ELECTR0 0.47UF 50WV MF 0.027UF J MF 0.043UF J MF 6800PF J MF 0.015UF J | | |
| C69 C71 ,72 C73 ,74 C75 ,76 C75 ,76 | | | CK45FF1H103Z CE04LW1V100M CC45FSL1H221J CF92FV1H222J CK45FB1H561K | CERAMIC 0.010UF Z ELECTR0 10UF 35WV CERAMIC 220PF J MF 2200PF J CERAMIC 560PF K | | |
| C77 ,78 C79 ,80 C81 ,82 C83 ,84 C87 -94 | | * | CE04LW1A101M CF92FV1H123J CF92FV1H332J CE04LW1V4R7M CK45FB1H471K | ELECTR0 100UF 10WV MF 0.012UF J MF 3300PF J ELECTR0 4.7UF 35WV CERAMIC 470PF K | | |
| C95 ,96 C97 ,98 C101-104 C105,106 C107,108 | | | CF92FV1H333J CF92FV1H104J CK45FB1H561K CF92FV1H153J CF92FV1H683J | MF 0.033UF J MF 0.10UF J CERAMIC 560PF K MF 0.015UF J MF 0.068UF J | XE | |
| C109,110 C111,112 C113,114 C115,116 C117,118 | | | CE04JW1V4R7M CF92FV1H822J CC45FSL1H220J CC45FSL1H101J CF92FV1H333J | ELECTR0 4.7UF 35WV MF 8200PF J CERAMIC 22PF J CERAMIC 100PF J MF 0.033UF J | | |
| C119 C120 C121,122 C123 C124 | | * | CE04LW1V4R7M CE04JW1V4R7M CC45FSL1H331J CE04JW1E330M CE04JW1A101M | ELECTR0 4.7UF 35WV ELECTR0 4.7UF 35WV CERAMIC 330PF J ELECTR0 33UF 25WV ELECTR0 100UF 10WV | | |

E: Scandinavia & Europe K: USA P: Canada
 U: PX(Far East, Hawaii) T: England M: Other Areas
 UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

✕ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕 向 | Re- marks 備考 |
|--|----------------------------|-------------------|--|---|-------------------------|--------------------|
| C125 C126-128 C129,130 C131,132 C133,134 | | * | C91-0937-05 CK45FB1H471K CC45FSL1H470J CK45FF1H103Z C90-1228-05 | BACKUP 0.047F 5.5WV CERAMIC 470PF K CERAMIC 47PF J CERAMIC 0.010UF Z ELECTRØ 3300UF 50WV | | |
| C135 C136 C137 C138 C139 | | * | CK45FB1H102K CE04LW1V100M CE04LW1C221M CE04LW1A470M CE04LW1C101M | CERAMIC 1000PF K ELECTRØ 10UF 35WV ELECTRØ 220UF 16WV ELECTRØ 47UF 10WV ELECTRØ 100UF 16WV | | |
| C140 C141 C142 C144-147 C148 | | * | CE04LW1V100M CE04LW1A470M CE04LW1H100M CE04LW1C101M CE04LW1V100M | ELECTRØ 10UF 35WV ELECTRØ 47UF 10WV ELECTRØ 10UF 50WV ELECTRØ 100UF 16WV ELECTRØ 10UF 35WV | | |
| C149,150 C151 C152 C153 C154 | | * | CE04LW1A101M CK45FF1H103Z CE04LW1H010M CK45FF1H473Z CE04EW1H010M | ELECTRØ 100UF 10WV CERAMIC 0.010UF Z ELECTRØ 1.0UF 50WV CERAMIC 0.047UF Z ELECTRØ 1.0UF 50WV | | |
| C156 TC1 ,2 | | | CK45FF1H473Z C05-0303-05 | CERAMIC 0.047UF Z CERAMIC TRIMMER CAPACITOR(20PF) | | |
| 51 E1 E1 E3 E4 | 1C 2A 1C 1C 1C | * | E23-0149-05 E20-0231-05 E20-0438-15 E13-0621-05 E13-0446-05 | TERMINAL SCREW TERMINAL BOARD(2P)ANT SCREW TERMINAL BOARD (ANT) PHONE JACK(6P) VIDEO,CD,PHONE PHONE JACK(4P) TAPE | XE KPM | |
| E5 E6 | 1C 1B | | E20-0823-05 E11-0162-05 | LOCK TERMINAL BOARD(8P) PHONE JACK(3P) PHONES | | |
| △ F1 △ F1 △ F1 ,2 | 1B 1B 1B | | F06-2021-05 F06-4024-05 F06-2027-05 | FUSE (SEMKØ) (250V T2A) FUSE (UL) (250V 4A) FUSE (UL) (250V 2A) | XE KP M | |
| 55 55 | 1C 1C | | J13-0041-05 J13-0054-05 | FUSE CLIP FUSE CLIP | KPM XE | |
| CF1 ,2 CF1 ,2 CF3 CF4 L1 | | | L72-0140-05 L72-0190-05 L72-0096-05 L72-0099-05 L40-1092-14 | CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER SMALL FIXED INDUCTØR(1.0UH,M) | KPM XE | |
| L2 L3 L4 L5 L6 | | | L31-0509-05 L32-0277-15 L40-1021-14 L30-0439-15 L30-0362-05 | MW-RF COIL MW OSCILLATING COIL SMALL FIXED INDUCTØR(1.0MH,K) FM IFT AM IFT | | |
| L7 L8 L9 L10 ,11 X1 | | | L79-0125-05 L40-1092-14 L79-0739-05 L39-0085-05 L77-0573-05 | LC FILTER SMALL FIXED INDUCTØR(1.0UH,M) LC FILTER PHASE-COMPENSATION COIL CRYSTAL RESONATOR(4.5MHZ) | XE XE | |
| X2 | | | L78-0202-05 | RESONATOR (400KHZ) | | |
| J | 1B,1C | | N09-0333-05 | TAPPING SCREW (Ø3X12) | | |

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii)

T: England

M: Other Areas

UE: AAFES(Europe)

X: Australia

△ indicates safety critical components.

✱ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|--|----------------------------|-------------------|--|---|------------------------|--------------------|
| CP1 ,2 R2 R10 R19 R22 | | | R90-0187-05 RD14GB2E101J RD14GB2E100J RD14GB2E471J RD14GB2E101J | MULTI-COMP 0.22X2 K 5W FL-PROOF RD 100 J 1/4W FL-PROOF RD 10 J 1/4W FL-PROOF RD 470 J 1/4W FL-PROOF RD 100 J 1/4W | XE | |
| R33 R34 R43 R50 R113,114 | | | RD14GB2E151J RD14GB2E101J RS14KB3A181J RD14GB2E101J RS14KB3A4R7J | FL-PROOF RD 150 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RS 180 J 1W FL-PROOF RD 100 J 1/4W FL-PROOF RS 4.7 J 1W | | |
| R119,120 R121,122 R164 R165-167 R170 | | * | RD14GB2E100J RS14KB3A561J RS14KB3D180J RS14KB3D102J RD14GB2E821J | FL-PROOF RD 10 J 1/4W FL-PROOF RS 560 J 1W FL-PROOF RS 18 J 2W FL-PROOF RS 1.0K J 2W FL-PROOF RD 820 J 1/4W | | |
| R173 R174 R175 R178 R179 | | | RS14KB3A182J RD14GB2E470J RS14KB3A561J RS14KB3A222J RD14GB2E4R7J | FL-PROOF RS 1.8K J 1W FL-PROOF RD 47 J 1/4W FL-PROOF RS 560 J 1W FL-PROOF RS 2.2K J 1W FL-PROOF RD 4.7 J 1/4W | | |
| R180 R181,182 R183 R184-188 VR1 | | | RS14KB3D122J RD14GB2E221J R92-0173-05 RD14GB2E101J R12-3097-05 | FL-PROOF RS 1.2K J 2W FL-PROOF RD 220 J 1/4W RC 2.2M M 1/2W FL-PROOF RD 100 J 1/4W TRIMMING P8T. (22K)AM TUNE | KP | |
| VR2 VR3 VR4 VR5 VR6 | 2B 2B | * | R12-3096-05 R12-5047-05 R12-1069-05 RD6-5156-15 RD1-5041-05 | TRIMMING P8T. (10K)FM TUNE TRIMMING P8T. (220K)FM SEPA TRIMMING P8T. (4.7K)FM VCO POTENTIOMETER(100K)VOLUME POTENTIOMETER(200K)BALANCE | | |
| VR7 -10 | 1B | * | RD5-5013-05 | POTENTIOMETER(BASS,TREBLE) | | |
| S1 ,2 S3 S4 S5 S6 | 2C 2B 1B 2B 1C | | S31-2072-05 S40-2351-05 S42-2155-05 S31-2113-05 S31-2115-05 | SLIDE SWITCH (FM DE-EMPH,CH SP PUSH SWITCH (LOUDNESS) MULTIPLE PUSH SWITCH(SPEAKERS) SLIDE SWITCH (IMPEDANCE SEL) SLIDE SWITCH (VOLT SEL) | M M | |
| S7 -22 S24 -28 | 1B 1B | | S40-1064-05 S40-1064-05 | PUSH SWITCH (CH,TU,M,BAND) PUSH SWITCH (TAPE,VIDEO) | | |
| D1 ,2 D1 ,2 D3 D4 ,5 D4 ,5 | | | 1SS133 1SS176 KV1236(ZZ) 1SS133 1SS176 | DIODE DIODE VARIABLE CAPACITANCE DIODE DIODE DIODE | | |
| D6 D6 D7 -27 D7 -27 D28 | | | HZ55.1N(B2) RD5.1ES(B2) 1SS133 1SS176 HZ510N(B) | ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE | | |
| D28 D29 -39 D29 -39 D41 -43 D41 -43 | | | RD10ES(B) 1SS133 1SS176 1SS133 1SS176 | ZENER DIODE DIODE DIODE DIODE DIODE | MXE MXE | |

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii)

T: England

M: Other Areas

UE: AAFES(Europe)

X: Australia

⚠ indicates safety critical components.

✕ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕 向 | Re- marks 備考 |
|---|---------------|-------------------|--|---|-------------------------|--------------------|
| D41 ,42 D41 ,42 D49 D50 ,51 D50 ,51 | | | 1SS133 1SS176 RBV-402LFA HZS6. 2N(B2) RD6. 2ES(B2) | DIODE DIODE DIODE ZENER DIODE ZENER DIODE | KP KP | |
| D52 D52 D53 D53 D54 | | | 1SS133 1SS176 HZS15N(B) RD15ES(B) DSM1A1 | DIODE DIODE ZENER DIODE ZENER DIODE DIODE | | |
| D55 D55 D56 D56 D57 | | | HZS24N(B) RD24ES(B) HZS6. 2N(B2) RD6. 2ES(B2) HZS5. 1N(B2) | ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE | | |
| D57 D58 -60 D58 -60 D61 D61 | | | RDS. 1ES(B2) 1SS133 1SS176 HZS4. 7N(B) RD4. 7ES(B) | ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE | | |
| D62 ,63 D62 ,63 FL1 IC1 IC2 | 1B | * | 1SS133 1SS176 FIP8BRM7A LA1265 CX7925B | DIODE DIODE FLUORESCENT INDICATOR TUBE IC(FM/AM TUNER) IC(FREQUENCY SYNTHESIZER PLL) | | |
| IC3 IC4 IC4 IC5 IC6 | | * | AN7470 M5218P-A NJM4558D-A LC7820 UPD7538AC-041 | IC(FM MPX) IC(OP AMP X2) IC(OP AMP X2) IC(ELECTRONIC CONTROL SWITCH) IC(MICROPROCESSOR) | | |
| Q1 Q2 Q3 Q4 ,5 Q6 | | | 2SC1923(R,0) 2SC945(A)(Q,P) 2SC1845(F,E) 2SC945(A)(Q,P) 2SA733(A)(Q,P) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | XE | |
| Q7 Q8 Q9 ,10 Q11 ,12 Q13 ,14 | | | 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SC3853 2SA1489 2SC1845(F,E) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q15 -18 Q19 -21 Q19 -22 Q23 ,24 Q25 | | | 2SC2878 2SA733(A)(Q,P) 2SA733(A)(Q,P) 2SC945(A)(Q,P) 2SC2167 | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | KPXE M | |
| Q26 Q27 Q28 Q29 | | | 2SC945(A)(Q,P) 2SC2003(L,K) 2SC945(A)(Q,P) 2SA754(L,K) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| FRONT-END UNIT (X86-1040-11) K, P & M Type | | | | | | |
| C1 C2 C3 C4 C5 | | * | CC41FSL1H060D C93-0012-05 CC41FSL1H100D C93-0012-05 CK41FB1H221K | CYLND CHIP C 6.0PF D CYLND CHIP C 0.01UF M CYLND CHIP C 10PF D CYLND CHIP C 0.01UF M CYLND CHIP C 220PF K | | |

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii)

T: England

M: Other Areas

UE: AAFES(Europe)

X: Australia

⚠ indicates safety critical components.

✕ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|--|---------------|-------------------|-------------------|--------------------------------|------------------------|--------------------|
| C6 | | * | CC41FSL1H070D | CYLND CHIP C 7.0PF D | | |
| C8 | | | CC41FSL1H020C | CYLND CHIP C 2.0PF C | | |
| C9 | | | CK41FB1H221K | CYLND CHIP C 220PF K | | |
| C10 | | | C93-0012-05 | CYLND CHIP C 0.01UF M | | |
| C11 | | * | CC41FSL1H080D | CYLND CHIP C 8.0PF D | | |
| C12 | | * | CC41FSL1H010C | CYLND CHIP C 1.0PF C | | |
| C14 | | | C93-0012-05 | CYLND CHIP C 0.01UF M | | |
| C16 | | * | CC41FSL1H080D | CYLND CHIP C 8.0PF D | | |
| C17 | | | CC41FSL1H330J | CYLND CHIP C 33PF J | | |
| C18 | | * | CC41FSL1H150J | CYLND CHIP C 15PF J | | |
| C19 | | * | CC41FSL1H010C | CYLND CHIP C 1.0PF C | | |
| C20 | | | CK41FY1E102M | CYLND CHIP C 1000PF M | | |
| C21 | | * | CC41FSL1H470J | CYLND CHIP C 47PF J | | |
| TC1 | | | C05-0302-05 | CERAMIC TRIMMER CAPACITOR(11PF | | |
| L1 | | * | L31-0551-05 | FM-RF COIL | | |
| L2 | | * | L31-0552-05 | FM-RF COIL | | |
| L3 | | * | L31-0553-05 | FM-RF COIL | | |
| L4 | | | L40-1092-16 | SMALL FIXED INDUCTOR(1UH,M) | | |
| L7 | | | L32-0318-05 | FM OSCILLATING COIL | | |
| T1 | | * | L30-0427-15 | FM IFT | | |
| - | | | R92-0338-05 | CYLND CHIP R 0.0HM | | |
| R1 ,2 | | | RD41FB2B473J | CYLND CHIP R 47K J 1/8W | | |
| R3 | | * | RD41FB2B470J | CYLND CHIP R 47 J 1/8W | | |
| R4 | | | RD41FB2B331J | CYLND CHIP R 330 J 1/8W | | |
| R5 | | | RD41FB2B101J | CYLND CHIP R 100 J 1/8W | | |
| R6 | | | RD41FB2B473J | CYLND CHIP R 47K J 1/8W | | |
| R9 | | | RD41FB2B105J | CYLND CHIP R 1.0M J 1/8W | | |
| R11 | | | RD41FB2B101J | CYLND CHIP R 100 J 1/8W | | |
| R14 | | | RD41FB2B472J | CYLND CHIP R 4.7K J 1/8W | | |
| R15 ,16 | | | RD41FB2B223J | CYLND CHIP R 22K J 1/8W | | |
| R17 | | | RD41FB2B222J | CYLND CHIP R 2.2K J 1/8W | | |
| R18 | | | RD41FB2B224J | CYLND CHIP R 220K J 1/8W | | |
| R19 ,20 | | | RD41FB2B101J | CYLND CHIP R 100 J 1/8W | | |
| R21 | | | RD41FB2B100J | CYLND CHIP R 10 J 1/8W | | |
| D1 | | * | KV1310A-3 | VARIABLE CAPACITANCE DIODE | | |
| Q1 | | | 2SK302(Y,GR) | FET | | |
| Q2 | | * | 2SC2714(B) | TRANSISTOR | | |
| Q4 ,5 | | * | 2SC2714(R,B) | TRANSISTOR | | |
| FRONT-END UNIT (X86-1052-71) X & E Type | | | | | | |
| C1 | | | CC41FSL1H060D | CYLND CHIP C 6.0PF D | | |
| C2 | | | C93-0012-05 | CYLND CHIP C 0.01UF M | | |
| C3 | | | CC41FSL1H100D | CYLND CHIP C 10PF D | | |
| C4 | | | C93-0012-05 | CYLND CHIP C 0.01UF M | | |
| C5 | | | CK41FB1H221K | CYLND CHIP C 220PF K | | |
| C6 | | | CC41FSL1H100D | CYLND CHIP C 10PF D | | |
| C7 | | | CC41FSL1H060D | CYLND CHIP C 6.0PF D | | |
| C8 | | | CC41FSL1H100D | CYLND CHIP C 10PF D | | |
| C9 | | | CK41FB1H221K | CYLND CHIP C 220PF K | | |
| C10 | | | C93-0012-05 | CYLND CHIP C 0.01UF M | | |
| C11 | | | CK41FY1E102M | CYLND CHIP C 1000PF M | | |
| C12 | | * | CC41FSL1H030C | CYLND CHIP C 3.0PF C | | |
| C13 | | | CC41FSL1H100D | CYLND CHIP C 10PF D | | |
| C14 | | | C93-0012-05 | CYLND CHIP C 0.01UF M | | |
| C16 | | | CC41FSL1H080D | CYLND CHIP C 8.0PF D | | |

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii)

T: England

M: Other Areas

UE: AAFES(Europe)

X: Australia

⚠ indicates safety critical components.

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|------------------|---------------|-------------------|-------------------|--------------------------------|------------------------|--------------------|
| C17 | | | CC41FSL1H330J | CYLND CHIP C 33PF J | | |
| C18 | | | CC41FSL1H150J | CYLND CHIP C 15PF J | | |
| C19 | | | CC41FSL1H010C | CYLND CHIP C 1.0PF C | | |
| C20 | | | CK41FY1E102M | CYLND CHIP C 1000PF M | | |
| C21 | | | CC41FSL1H470J | CYLND CHIP C 47PF J | | |
| TC1 | | | C05-0302-05 | CERAMIC TRIMMER CAPACITOR(11PF | | |
| L1 | | | L31-0551-05 | FM-RF COIL | | |
| L2 | | | L31-0552-05 | FM-RF COIL | | |
| L3 | | | L31-0553-05 | FM-RF COIL | | |
| L4 | | | L40-1092-16 | SMALL FIXED INDUCTOR(1UH,M) | | |
| L5 | | * | L31-0554-05 | FM-RF COIL | | |
| L7 | | | L32-0318-05 | FM OSCILLATING COIL | | |
| T1 | | | L30-0427-15 | FM IFT | | |
| - | | | R92-0338-05 | CYLND CHIP R 0.0HM | | |
| R1 | | | RD41FB2B473J | CYLND CHIP R 47K J 1/8W | | |
| R2 | | | RD41FB2B104J | CYLND CHIP R 100K J 1/8W | | |
| R3 | | | RD41FB2B470J | CYLND CHIP R 47 J 1/8W | | |
| R4 | | | RD41FB2B331J | CYLND CHIP R 330 J 1/8W | | |
| R5 | | | RD41FB2B101J | CYLND CHIP R 100 J 1/8W | | |
| R6 ,7 | | | RD41FB2B473J | CYLND CHIP R 47K J 1/8W | | |
| R8 ,9 | | | RD41FB2B104J | CYLND CHIP R 100K J 1/8W | | |
| R11 | | | RD41FB2B101J | CYLND CHIP R 100 J 1/8W | | |
| R12 | | | RD41FB2B681J | CYLND CHIP R 680 J 1/8W | | |
| R13 | | | RD41FB2B104J | CYLND CHIP R 100K J 1/8W | | |
| R14 | | | RD41FB2B472J | CYLND CHIP R 4.7K J 1/8W | | |
| R15 ,16 | | | RD41FB2B223J | CYLND CHIP R 22K J 1/8W | | |
| R17 | | | RD41FB2B222J | CYLND CHIP R 2.2K J 1/8W | | |
| R18 | | | RD41FB2B224J | CYLND CHIP R 220K J 1/8W | | |
| R19 ,20 | | | RD41FB2B101J | CYLND CHIP R 100 J 1/8W | | |
| R21 | | | RD41FB2B100J | CYLND CHIP R 10 J 1/8W | | |
| D1 -4 | | | KV1310-4 | VARIABLE CAPACITANCE DIODE | | |
| Q1 | | | 2SK302(Y,GR) | FET | | |
| Q2 | | * | 3SK131(M,L) | FET | | |
| Q3 | | | 2SK302(Y,GR) | FET | | |
| Q4 ,5 | | | 2SC2714(R,0) | TRANSISTOR | | |

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii)

T: England

M: Other Areas

UE: AAFES(Europe)

X: Australia

△ indicates safety critical components.

SPECIFICATIONS

Audio Section

Power Output

40 watts per channel minimum RMS, both channel driven at 8 ohms from 40 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion.

45 watts per channel minimum RMS, both channel driven at 8 ohms from 1 kHz with no more than 0.09% total harmonic distortion.

| | |
|---|--------------------------------|
| Total Harmonic Distortion | |
| (40 Hz – 20,000 Hz, 8 ohms)..... | 0.09% at 40 W |
| (1 kHz, 8 ohms)..... | 0.01% at 40 W |
| Intermodulation Distortion | 0.09% at 40 W |
| Input Sensitivity/Impedance | |
| PHONO (MM)..... | 2.5 mV/47 kohms |
| CD/AUX, TAPE, VIDEO..... | 150 mV/47 kohms |
| Signal to Noise Ratio | |
| PHONO (MM)..... | 72 dB |
| CD/AUX, TAPE, VIDEO..... | 95 dB |
| Frequency Response | |
| PHONO | |
| (RIAA Standard Curve)..... | 20 Hz – 20 kHz, ± 0.5 dB |
| CD/AUX, TAPE, VIDEO..... | 10 Hz – 70 kHz, $\pm 0, -3$ dB |

FM Tuner Section

| | |
|--|--|
| Tuning Frequency Range | 87.5 MHz – 108 MHz |
| Antenna Impedance | 300 ohms balanced & 75 ohms unbalanced |
| Usable Sensitivity | 11.2 dBf (2.0 μ V) |
| 50 dB Quieting Sensitivity | |
| MONO..... | 17.2 dBf (4 μ V) |
| STEREO..... | 38.2 dBf (45 μ V) |
| Signal to Noise Ratio at 65 dBf | |
| Mono..... | 76 dB |
| Stereo..... | 72 dB |
| Total Harmonic Distortion at 1,000 Hz | |
| Mono..... | 0.2% |
| Stereo..... | 0.3% |

| | |
|---------------------------------------|--------------------|
| Frequency response | 30 Hz to 15,000 Hz |
| | +0.5 dB, -2.5 dB |
| Stereo Separation | 40 dB at 1,000 Hz |
| Selectivity | 53 dB at 400 kHz |
| Capture Ratio | 1.2 dB |
| Image Rejection Ratio | 40 dB |
| IF Rejection Ratio | 86 dB |
| Spurious Rejection Ratio | 80 dB |
| AM Suppression Ratio | 57 dB |

AM Tuner Section

| | |
|------------------------------------|---|
| Tuning Range | (530 kHz – 1,610 kHz) with the AM tuning interval set at 10 kHz |
| Usable Sensitivity | 15 μ V (440 μ V/m) |
| Signal to Noise Ratio | 50 dB |
| Selectivity | 25 dB |

General

| | |
|--------------------------------|-------------------------|
| Power Requirement | 120V, 60 Hz |
| Power Consumption | 2A... USA Model |
| AC Outlet | Unswitched (200W) |
| Dimensions | W: 420 mm (16-17/32") |
| | H: 109 mm (4-19/64") |
| | D: 236 mm (9-19/64") |
| Weight | Net... 4.6 kg (10.1 lb) |

Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

2201 East Dominguez Street, Long Beach, CA 90810;
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

P.O. Box 1075 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker-Str. 15, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A.

Hi-Fi•VIDEO•CAR Hi-Fi
13, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD U.K. LTD.

17 Bristol Road, The Metropolitan Centre, Greenford, Middx. UB6 8UP England

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 5 th Floor, 34-37, Connaught Road, Central, Hong Kong